REALTEK SEMICONDUCTOR CORPORATION
AND SUBSIDIARIES
CONSOLIDATED FINANCIAL STATEMENTS AND
REPORT OF INDEPENDENT ACCOUNTANTS
DECEMBER 31, 2019 AND 2018
(Stock code:2379)

For the convenience of readers and for information purpose only, the auditors' report and the accompanying financial statements have been translated into English from the original Chinese version prepared and used in the Republic of China. In the event of any discrepancy between the English version and the original Chinese version or any differences in the interpretation of the two versions, the Chinese-language auditors' report and financial statements shall prevail.

#### REPORT OF INDEPENDENT ACCOUNTANTS TRANSLATED FROM CHINESE

PWCR 19000228

To the Board of Directors and Shareholders of Realtek Semiconductor Corporation

#### **Opinion**

We have audited the accompanying consolidated balance sheets of Realtek Semiconductor Corporation and its subsidiaries (the "Group") as at December 31, 2019 and 2018, and the related consolidated statements of comprehensive income, of changes in equity and of cash flows for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, based on our audits and the reports of other independent accountants (please refer to the *Other matters* section of our report), the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as at December 31, 2019 and 2018, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers" and the International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the Financial Supervisory Commission.

#### Basis for opinion

We conducted our audits in accordance with the "Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants" and generally accepted auditing standards in the Republic of China ("ROC GAAS"). Our responsibilities under those standards are further described in the Independent Accountant's Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the Group in accordance with the Code of Professional Ethics for Certified Public Accountants in the Republic of China (the "Code"), and we have fulfilled our other ethical responsibilities in accordance with the Code. Based on our audits and the report of the other independent accountants, we believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### Key audit matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole and, in forming our opinion thereon, we do not provide a separate opinion on these matters.

Key audit matters for the Group's consolidated financial statements of the current period are stated as follows:

#### Existence of cash in banks

#### **Description**

Refer to Notes 4(6) and 4(9) of the consolidated financial statements for the accounting policies on cash and cash equivalents and time deposits that do not qualify as cash equivalents. The balance of cash and cash equivalents was NT\$5,727,911 thousand, constituting 8% of the consolidated total assets as of December 31, 2019, as described in Note 6(1) of the consolidated financial statements. Time deposits that do not meet the definition of cash and cash equivalents, which refers to short-term, highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value are classified as "financial assets at amortised cost - current". The balance of these time deposits amounted to NT\$39,558,054 thousand, constituting 54% of consolidated total assets, refer to Note 6(4) of the consolidated financial statements for the details. The abovementioned assets constituted 62% of the total assets, have a significant impact on the consolidated financial statements, the nature and usage of those bank accounts varies, and the Group transacts with various financial institutions, thus, audit of cash in bank was considered as one of the key audit matters.

#### How our audit addressed the matter

We performed the following audit procedures in respect of the above key audit matter:

- 1. Obtained detailed listings of cash in banks. Sent confirmation letters to all financial institutions and reviewed special terms and agreements in order to ensure the existence and rights and obligations of cash in banks.
- 2. Obtained an understanding of procedures for preparation and review of bank reconciliations, including validating unusual reconciling items.
- 3. Obtained an understanding of the usage of the bank accounts as well as sampled and validated significant cash transactions to ensure they are operational in nature and there are no significant and unusual transactions.

#### Evaluation of inventories

#### **Description**

Refer to Note 4(14) of the consolidated financial statements for inventory evaluation policies, Note 5(2) for uncertainty of accounting estimates and assumptions of inventory evaluation and Note 6(6) for the details of inventories.

The Group is primarily engaged in researching, developing, manufacturing, selling of various integrated circuits and related application software. Inventories are stated at the lower of cost and net realizable value. Due to the balances of inventories are significant to the financial statements and the rapid technological changes in the industry, there is a higher risk of decline in market value and obsolescence of inventories. Thus, we considered the evaluation of inventories as one of the key audit matters.

#### How our audit addressed the matter

We performed the following audit procedures in respect of the above key audit matter:

- 1. Obtained an understanding of accounting policies on the provision of allowance for inventory valuation losses and assessed the reasonableness.
- 2. Validated the accuracy of inventory aging report, as well as sampled and confirmed the consistency of quantities and amounts with detailed inventory listing, verified dates of movements with supporting documents and ensured the proper categorization of inventory aging report.
- 3. Evaluated and confirmed the reasonableness of net realizable value for inventories through validating respective supporting documents.

#### Other matter - Reference to audits of other independent accountants

We did not audit the financial statements of certain consolidated subsidiaries and investments accounted for under equity method. Those financial statements were audited by other independent accountants, whose reports thereon have been furnished to us, and our opinion expressed herein, insofar as it relates to the amounts included in the financial statements and the information on the consolidated subsidiaries and investments accounted for under equity method were based solely on the reports of other independent accountants. Total assets (including investments accounted for under equity method amounted to NT\$185,972 thousand and NT\$261,628 thousand) of those consolidated subsidiaries amounted to NT\$5,971,097 thousand and NT\$6,469,495 thousand, constituting 8.13% and 11.11% of the consolidated total assets as of December 31, 2019 and 2018, respectively, and total operating revenues were both NT\$0 thousand, both constituting 0% of the consolidated total operating revenues for the years then ended. Furthermore, according to the reports of other independent accountants, comprehensive losses of those investments accounted for under equity method amounted to NT\$19,443 thousand and NT\$41,330 thousand, constituting 0.32% and 0.82% of comprehensive incomes for the years then ended, respectively.

#### Other matter – Parent company only financial reports

We have audited and expressed an unqualified opinion with other matter section on the parent company only financial statements of Realtek Semiconductor Corporation as at and for the years ended December 31, 2019 and 2018.

## Responsibilities of management and those charged with governance for the consolidated financial statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers" and the International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the Financial Supervisory Commission, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance, including the Audit Committee, are responsible for overseeing the Group's financial reporting process.

### Independent accountant's responsibilities for the audit of the consolidated financial statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue a report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ROC GAAS will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with ROC GAAS, we exercise professional judgement and maintain professional skepticism throughout the audit. We also:

- 1. Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- 2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.

- 3. Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- 4. Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- 5. Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- 6. Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that
were of most significance in the audit of the consolidated financial statements of the current period and
are therefore the key audit matters. We describe these matters in our report unless law or regulation
precludes public disclosure about the matter or when, in extremely rare circumstances, we determine
that a matter should not be communicated in our report because the adverse consequences of doing so
would reasonably be expected to outweigh the public interest benefits of such communication.

Lin, Yu-Kuan Tsang, Kwoh-Wah For and on behalf of PricewaterhouseCoopers, Taiwan March 20, 2020

The accompanying consolidated financial statements are not intended to present the financial position and results of operations and cash flows in accordance with accounting principles generally accepted in countries and jurisdictions other than the Republic of China. The standards, procedures and practices in the Republic of China governing the audit of such financial statements may differ from those generally accepted in countries and jurisdictions other than the Republic of China. Accordingly, the accompanying consolidated financial statements and report of independent accountants are not intended for use by those who are not informed about the accounting principles or auditing standards generally accepted in the Republic of China, and their applications in practice.

As the financial statements are the responsibility of the management, PricewaterhouseCoopers cannot accept any liability for the use of, or reliance on, the English translation or for any errors or misunderstandings that may derive from the translation.

# REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars)

			December 31, 2019		December 31, 2018		
	Assets	Notes	 AMOUNT	%	AMOUNT	%	
	Current assets						
1100	Cash and cash equivalents	6(1)	\$ 5,727,911	8	\$ 4,309,651	7	
1110	Financial assets at fair value through	6(2)					
	profit or loss - current		74,012	-	1,321,103	2	
1136	Financial assets at amortised cost -	6(4) and 8					
	current		39,558,054	54	31,286,209	54	
1170	Accounts receivable, net	6(5)	8,254,011	11	5,647,722	10	
1180	Accounts receivable, net - related	6(5) and 7					
	parties		2,196,717	3	1,772,071	3	
1200	Other receivables		768,699	1	657,190	1	
130X	Inventories, net	6(6)	7,391,535	10	5,862,005	10	
1410	Prepayments		 318,652	1	 297,327	1	
11XX	<b>Total current assets</b>		 64,289,591	88	 51,153,278	88	
	Non-current assets						
1517	Financial assets at fair value through	6(3)					
	other comprehensive income - non-						
	current		1,859,478	2	1,651,072	3	
1535	Financial assets at amortised cost -	6(4) and 8					
	non-current		69,477	-	-	-	
1550	Investments accounted for under	6(7)					
	equity method		185,972	-	261,628	-	
1600	Property, plant and equipment	6(8)	3,446,162	5	3,316,578	6	
1755	Right-of-use assets	6(9)	1,403,245	2	-	-	
1760	Investment property	6(10)	49,136	-	54,868	-	
1780	Intangible assets	6(11)	1,952,960	3	1,686,249	3	
1840	Deferred income tax assets	6(27)	114,163	-	78,472	-	
1900	Other non-current assets		 61,646		 50,169		
15XX	Total non-current assets		 9,142,239	12	 7,099,036	12	
1XXX	Total assets		\$ 73,431,830	100	\$ 58,252,314	100	

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# REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

	Liabilities and Equity	Notes		December 31, 2019 AMOUNT	19		December 31, 2018 AMOUNT	%
	Current liabilities	Notes	·	AWOUNT			AMOUNT	
2100	Short-term borrowings	6(13)	\$	18,966,042	26	\$	14,526,311	25
2130	Contract liabilities - current	6(21)		104,974	_		148,696	_
2150	Notes payable	. ,		3,276	_		8,657	_
2170	Accounts payable			7,441,724	10		5,635,986	10
2180	Accounts payable - related parties	7		329,514	1		249,869	1
2200	Other payables	6(14)		10,746,168	15		7,542,208	13
2220	Other payables - related parties	7		87,293	-		69,047	-
2230	Current income tax liabilities			828,790	1		601,614	1
2280	Lease liabilities - current			84,328	-		-	-
2300	Other current liabilities	6(21)		5,378,078	7		3,719,866	6
21XX	Total current liabilities			43,970,187	60		32,502,254	56
	Non-current liabilities							
2550	Provisions - non-current	6(16)		1,075,809	2		999,868	2
2570	Deferred income tax liabilities	6(27)		51,723	-		22,310	-
2580	Lease liabilities - non-current			1,028,347	1		-	-
2600	Other non-current liabilities			77,080			80,983	
25XX	Total non-current liabilities			2,232,959	3		1,103,161	2
2XXX	<b>Total liabilities</b>			46,203,146	63		33,605,415	58
	Equity							
	Share capital	6(17)						
3110	Common shares			5,080,955	7		5,080,955	9
	Capital surplus	6(18)						
3200	Capital surplus			2,736,854	3		3,236,659	5
	Retained earnings	6(19)						
3310	Legal reserve			4,902,176	7		4,467,099	8
3320	Special reserve			-	-		600,443	1
3350	Undistributed earnings			14,716,036	20		10,850,172	19
	Other equity	6(20)						
3400	Other equity interest		(	217,036)			401,964	
31XX	Equity attributable to holders of	f						
	the parent company			27,218,985	37		24,637,292	42
36XX	Non-controlling interest			9,699			9,607	
3XXX	Total equity			27,228,684	37		24,646,899	42
3X2X	Total liabilities and equity		\$	73,431,830	100	\$	58,252,314	100

The accompanying notes are an integral part of these consolidated financial statements.

# REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars, except earnings per share amounts)

			Year ended December 31					
				2019		2018		
	Items	Notes		AMOUNT	%	AMOUNT	%	
4000	Operating revenue	6(21) and						
		7	\$	60,744,006	100 \$	45,805,746	100	
5000	Operating costs	6(6) and 7	(	34,160,690)(	56)(	25,344,876)(	55)	
5950	Gross profit			26,583,316	44	20,460,870	45	
	Operating expenses	6(25)(26)						
		and 7						
6100	Selling expenses		(	2,996,402)(	5)(	2,464,470)(	6)	
6200	General and administrative expenses		(	1,699,212)(	3)(	1,263,689)(	3)	
6300	Research and development expenses		(	15,535,505)(	26) (	12,969,972)(	28)	
6450	Expected credit gains (losses)	12(2)	(	21,332)	<u> </u>	1,721		
6000	Total operating expenses		(	20,252,451)(	34)(	16,696,410)(	37)	
6900	Operating income			6,330,865	10	3,764,460	8	
	Non-operating income and expenses							
7010	Other income	6(22)		1,412,779	2	1,134,971	2	
7020	Other gains and losses	6(23)	(	323,685)	- (	58,536)	-	
7050	Finance costs	6(24)	(	160,254)	- (	140,387)	-	
7060	Share of loss of associates and joint	6(7)						
	ventures accounted for under equity							
	method		(	23,833)	<u> </u>	43,307)		
7000	Total non-operating income and							
	expenses			905,007	2	892,741	2	
7900	Profit before income tax, net			7,235,872	12	4,657,201	10	
7950	Income tax expense	6(27)	(	445,497)(	1)(	306,420)(	1)	
8200	Net income for the year		\$	6,790,375	11 \$	4,350,781	9	

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## REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars, except earnings per share amounts)

			Year ended December 31				
				2019		2018	
	Items	Notes		AMOUNT	%	AMOUNT	%
	Other comprehensive income, net	6(20)					
	Components of other comprehensive						
	income that will not be reclassified to						
	profit or loss						
8311	Losses on remeasurements of						
	defined benefit plans		\$	-	- (\$	75,809)	-
8316	Unrealised gains (losses) from						
	investments in equity instruments						
	measured at fair value through other						
	comprehensive income			227,352	- (	165,659)	-
8320	Share of other comprehensive						
	income of associates and joint						
	ventures accounted for under equity						
	method, components of other						
	comprehensive income that will not						
	be reclassified to profit or loss			4,390	_	1,977	_
8310	Total components of other			<u>,                                      </u>		,	
	comprehensive income that will						
	not be reclassified to profit or						
	loss			231,742	- (	239,491)	_
	Components of other comprehensive		-		`-		
	income that will be reclassified to						
	profit or loss						
8361	Cumulative translation differences						
	of foreign operation		(	891,954)(	1)	942,974	2.
8360	Total components of other		\	<u> </u>		, . <u>_ ,,,</u>	
0200	comprehensive (loss) income that						
	will be reclassified to profit or						
	loss		(	891,954)(	1)	942,974	2
8300	Other comprehensive (loss) income,		\	<u> </u>	/	712,771	
0500	net		(\$	660,212)(	1) \$	703,483	2
8500	Total comprehensive income for the		( <u>Ψ</u>	000;212)(		703,103	
8300	year		•	6,130,163	10 \$	5,054,264	11
			\$	0,130,103	10 4	3,034,204	11
8610	Profit attributable to:						
8010	Equity holders of the parent		Φ	( 700 000	11 (	4 250 760	0
9630	company		\$	6,790,283	11 \$	, ,	9
8620	Non-controlling interest		Φ.	92	<u> </u>	13	
	Profit for the year		\$	6,790,375	<u> 11</u> 3	4,350,781	9
	Comprehensive income						
8710	Equity holders of the parent						
	company		\$	6,130,071	10 \$		11
8720	Non-controlling interest			92		13	
	Total comprehensive income for						
	the year		\$	6,130,163	<u>10</u> \$	5,054,264	11
	Familian van skane (* J. H)						
0750	Earnings per share (in dollars)	6(29)	ď		12 26 4		0 57
9750	Basic earnings per share	6(28)	\$		13.36	)	8.57
9850	Diluted earnings per share	6(28)	\$		13.13	)	8.40

The accompanying notes are an integral part of these consolidated financial statements.

#### REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES

#### CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

#### FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars, except as otherwise indicated)

Equity attributable to owners of the parent Retained Earnings Unrealised gains (losses) from financial assets Financial statements measured at fair translation Unrealized gain on value through other Undistributed differences of foreign comprehensive available-for-sale Non-controlling Notes Common shares Capital surplus Legal reserve Special reserve earnings operations income financial assets Total interest Total equity 2018 Balance at January 1, 2018 \$ 5,065,062 3,558,856 4,127,884 9,698,159 813,163) 212,720 21,849,518 9,594 \$ 21,859,112 103,142 435,835 212,720) 326,257 326,257 Modified retrospective approach adjustment Balance at 1 January after adjustments 5,065,062 3,558,856 4,127,884 9,801,301 813,163 435,835 22,175,775 9.594 22,185,369 Net income for the year 4,350,768 4,350,768 13 4,350,781 Other comprehensive income (loss) for the year 6(20) 75,809 942,974 163,682 703,483 703,483 Total comprehensive income (loss) 4,274,959 942,974 5,054,251 5,054,264 163,682 13 Distribution of 2017 earnings 6(19) Legal reserve 339,215 339,215 Special reserve 600,443 600,443 Cash dividends 2,286,430) 2,286,430) 2,286,430) Employees' compensation transferred to 6(18) 15,893 163,692 179,585 179,585 commom stock Cash from capital surplus 6(18) 508,095) 508,095) 508,095) Changes in equity of associates accounted for 6(18) under equity method 22,005 22,005 22,005 Cash dividends returned 6(18) 201 201 201 Balance at December 31, 2018 5,080,955 3,236,659 4,467,099 600,443 10,850,172 129,811 272,153 24,637,292 9,607 24,646,899 2019 Balance at January 1, 2019 5,080,955 3,236,659 4,467,099 600,443 10,850,172 129,811 272,153 24,637,292 9,607 24,646,899 Net income for the year 6,790,283 6,790,283 92 6,790,375 Other comprehensive income (loss) for the year 6(20) 891,954 231,742 660,212 660,212) Total comprehensive income (loss) 6,790,283 891,954 231,742 6,130,071 92 6,130,163 Distribution of 2018 earnings 6(19) Legal reserve 435,077 435,077 Special reserve 600,443) 600,443 Cash dividends 3,048,573) 3,048,573) 3,048,573) Cash from capital surplus 6(18) 508,095) 508,095) 508,095) Changes in equity of associates accounted for under equity method 8.064 8.064 8.064 Disposal of investments in equity instruments 6(20)

41,212)

14,716,036

762,143

41,212

545,107

226

9,699

27,218,985

226

27,228,684

measured at fair value through other comprehensive income

6(18)

226

4,902,176

2,736,854

5,080,955

Cash dividends returned

Balance at December 31, 2019

# REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

	Notes		2019		2018
CASH FLOWS FROM OPERATING ACTIVITIES					
Profit before tax		\$	7,235,872	\$	4,657,201
Adjustments					
Adjustments to reconcile profit (loss)					
Depreciation	6(25)		700,806		544,084
Amortization	6(11)(25)		1,019,785		994,852
Expected credit losses (gains)	12(2)		21,332	(	1,721)
Interest expense	6(24)		160,254		140,387
Interest income	6(22)	(	1,277,211)	(	989,290)
Dividend income	6(22)	(	30,150)	(	32,942)
(Gain) loss on financial assets at fair value	6(23)				
through profit or loss		(	5,764)		19,240
Share of loss of associates and joint ventures	6(7)				
accounted for under equity method			23,833		43,307
Loss (gain) on disposal of property, plant and	6(23)				
equipment			157	(	133)
Impairment loss	6(23)		189,483		-
Other intangible assets transferred to expenses			526		7,698
Changes in operating assets and liabilities					
Changes in operating assets					
Financial assets at fair value through profit or					
loss - current			1,241,327	(	583,466)
Accounts receivable, net		(	2,627,248)		23,602
Accounts receivable, net - related parties		(	425,122)	(	495,111)
Other receivables			24,884	(	25,846)
Inventories		(	1,529,530)	(	349,516)
Prepayments		(	21,325)	(	27,418)
Changes in operating liabilities					
Contract liabilities - current		(	43,722)		45,527
Notes payable		(	5,381)		26
Accounts payable			1,805,738		1,058,645
Accounts payable - related parties			79,645	(	41,886)
Other payables			3,149,058		1,514,253
Other payables - related parties			18,246		29,123
Advance receipts			-		6,203
Other current liabilities			1,671,139		939,774
Provisions - non-current			102,181		98,438
Accrued pension obligations		(	2,466)	(	2,507)

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# REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

	Notes		2019		2018
Cash inflow generated from operations		\$	11,476,347	\$	7,572,524
Receipt of interest			1,140,818		793,055
Receipt of dividend			30,150		32,942
Interest paid		(	162,681)	(	138,521)
Income tax paid		(	233,349)	(	66,250)
Net cash flows from operating activities			12,251,285		8,193,750
CASH FLOWS FROM INVESTING ACTIVITIES			_		_
Acquisition of financial assets at amortised cost		(	44,715,715)	(	6,946,509)
Proceeds from disposal of financial assets at					
amortised cost			35,512,063		30,254
Acquisition of financial assets at fair value					
through other comprehensive income			-	(	28,000)
Proceeds from disposal of financial assets at fair					
value through other comprehensive income			939		-
Proceeds from capital reduction of investee	6(7)				
accounted for under equity method			17,908		=
Acquisition of property, plant and equipment	6(29)	(	747,026)	(	629,854)
Proceeds from disposal of property, plant and					
equipment			92		276
Acquisition of intangible assets	6(29)	(	1,403,279)	(	592,220)
Acquisition of right-of-use assets		(	286,276)		-
Increase in refundable deposits		(	3,811)	(	11,072)
(Increase) decrease in other non-current assets		(	7,666)		1,924
Net cash flows used in investing activities		(	11,632,771)	(	8,175,201)
CASH FLOWS FROM FINANCING ACTIVITIES					
Increase in short-term borrowings			148,524,088		146,563,258
Decrease in short-term borrowings		(	144,084,357)	(	150,089,571)
Repayment of principal portion of lease liabilities	6(30)	(	76,732)		-
Guarantee deposits returned	6(30)	(	1,437)		278)
Cash dividends paid	6(19)	(	3,556,668)	(	2,794,525)
Cash dividends returned			226		201
Net cash flows from (used in) financing					
activities			805,120	(	6,320,915)
Effect of exchange rate		(	5,374)		1,017,661
Net increase (decrease) in cash and cash equivalents			1,418,260	(	5,284,705)
Cash and cash equivalents at beginning of year			4,309,651		9,594,356
Cash and cash equivalents at end of year		\$	5,727,911	\$	4,309,651

# REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars, except as otherwise indicated)

#### 1. HISTORY AND ORGANISATION

Realtek Semiconductor Corporation (the "Company") was incorporated as a company limited by shares on October 21, 1987 and commenced commercial operations in March 1988. The Company was based in Hsinchu Science-Based Industrial Park since October 28, 1989. The Company and its subsidiaries (collectively referred herein as the "Group") are engaged in the research, development, design, testing, and sales of ICs and application softwares for these products.

### 2. THE DATE OF AUTHORISATION FOR ISSUANCE OF THE CONSOLIDATED FINANCIAL STATEMENTS AND PROCEDURES FOR AUTHORISATION

These consolidated financial statements were authorised for issuance by the Board of Directors on March 20, 2020.

#### 3. APPLICATION OF NEW STANDARDS, AMENDMENTS AND INTERPRETATIONS

(1) Effect of the adoption of new issuances of or amendments to International Financial Reporting Standards ("IFRSs") as endorsed by the Financial Supervisory Commission ("FSC")

New standards, interpretations and amendments endorsed by the FSC effective from 2019 are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 9, 'Prepayment features with negative	January 1, 2019
compensation'	
IFRS 16, 'Leases'	January 1, 2019
Amendments to IAS 19, 'Plan amendment, curtailment or settlement'	January 1, 2019
Amendments to IAS 28, 'Long-term interests in associates and joint	January 1, 2019
ventures'	
IFRIC 23, 'Uncertainty over income tax treatments'	January 1, 2019
Annual improvements to IFRSs 2015-2017 cycle	January 1, 2019

Except for the following, the above standards and interpretations have no significant impact to the Group's financial condition and financial performance based on the Group's assessment.

#### IFRS 16, 'Leases'

- A. IFRS 16, 'Leases', replaces IAS 17, 'Leases' and related interpretations and SICs. The standard requires lessees to recognize a 'right-of-use asset' and a lease liability (except for those leases with terms of 12 months or less and leases of low-value assets). The accounting stays the same for lessors, which is to classify their leases as either finance leases or operating leases and account for those two types of leases differently. IFRS 16 only requires enhanced disclosures to be provided by lessors.
- B. The Group has elected to apply IFRS 16 by not restating the comparative information (referred herein as the 'modified retrospective approach') when applying "IFRSs" effective in 2019 as endorsed by the FSC. Accordingly, the Group increased 'right-of-use asset' by \$1,048,079 and increased 'lease liability' by \$1,048,079 with respect to the lease contracts of lessees on January 1, 2019.
- C. The Group has used the following practical expedients permitted by the standard at the date of initial application of IFRS 16:
  - (a) The use of a single discount rate to a portfolio of leases with reasonably similar characteristics. (b) The exclusion of initial direct costs for the measurement of 'right-of-use asset'.
- D. The Group calculated the present value of lease liabilities by using the incremental borrowing interest rate range from 0.97% to 6.5%.
- E. The Group recognized lease liabilities which had previously been classified as 'operating leases' under the principles of IAS 17, 'Leases'. The reconciliation between operating lease commitments under IAS 17 measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate and lease liabilities recognized as of January 1, 2019 is as follows:

Operating lease commitments disclosed by applying IAS 17 as at December \$ 258,087 31, 2018

Add: Adjustments as a result of a different treatment of extension and termination options 1,108,891

Total lease contracts amount recognised as lease liabilities by applying IFRS 16 on January 1, 2019

1,366,978 0.97%~6.5%

Incremental borrowing interest rate at the date of initial application Lease liabilities recognised as at January 1, 2019 by applying IFRS 16

1,048,079

(2) Effect of new issuances of or amendments to IFRSs as endorsed by the FSC but not yet adopted by the Group

New standards, interpretations and amendments endorsed by the FSC effective from 2020 are as follows:

	Effective date by International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendment to IAS 1 and IAS 8, 'Disclosure Initiative-Definition of	January 1, 2020
Material'	
Amendments to IFRS 3, 'Definition of a business'	January 1, 2020
Amendments to IFRS 9, IAS 39 and IFRS 7, 'Interest rate benchmark	January 1, 2020
reform'	

The above standards and interpretations have no significant impact to the Group's financial condition and financial performance based on the Group's assessment.

#### (3) IFRSs issued by IASB but not yet endorsed by the FSC

New standards, interpretations and amendments issued by IASB but not yet included in the IFRSs as endorsed by the FSC are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 10 and IAS 28, 'Sale or contribution of assets	To be determined by
between an investor and its associate or joint venture'	International Accounting
	Standards Board
IFRS 17, 'Insurance contracts'	January 1, 2021
Amendments to IAS 1, 'Classification of liabilities as current or	January 1, 2022
non-current'	

The above standards and interpretations have no significant impact to the Group's financial condition and financial performance based on the Group's assessment.

#### 4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all the periods presented, unless otherwise stated.

#### (1) Compliance statement

The consolidated financial statements of the Group have been prepared in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers", International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the FSC (collectively referred herein as the "IFRSs").

#### (2) Basis of preparation

- A. Except for the following items, the consolidated financial statements have been prepared under the historical cost convention:
  - (a) Financial assets (including derivative instruments) at fair value through profit or loss.
  - (b) Financial assets at fair value through other comprehensive income.

- (c) Defined benefit liabilities recognized based on the net amount of pension fund assets less present value of defined benefit obligation.
- B. The preparation of financial statements in conformity with International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the FSC (collectively referred herein as the "IFRSs") requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements are disclosed in Note 5.

#### (3) Basis of consolidation

- A. Basis for preparation of consolidated financial statements:
  - (a) All subsidiaries are included in the Group's consolidated financial statements. Subsidiaries are all entities (including structured entities) controlled by the Group. The Group controls an entity when the Group is exposed, or has rights, to variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Consolidation of subsidiaries begins from the date the Group obtains control of the subsidiaries and ceases when the Group loses control of the subsidiaries.
  - (b) Inter-company transactions, balances and unrealised gains or losses on transactions between companies within the Group are eliminated. Accounting policies of subsidiaries have been adjusted where necessary to ensure consistency with the policies adopted by the Group.
  - (c) Profit or loss and each component of other comprehensive income are attributed to the owners of the parent and to the non-controlling interests. Total comprehensive income is attributed to the owners of the parent and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.
  - (d) Changes in a parent's ownership interest in a subsidiary that do not result in the parent losing control of the subsidiary (transactions with non-controlling interests) are accounted for as equity transactions, i.e. transactions with owners in their capacity as owners. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity.
  - (e) When the Group loses control of a subsidiary, the Group remeasures any investment retained in the former subsidiary at its fair value. That fair value is regarded as the fair value on initial recognition of a financial asset or the cost on initial recognition of the associate or joint venture. Any difference between fair value and carrying amount is recognized in profit or loss. All amounts previously recognized in other comprehensive income in relation to the subsidiary are reclassified to profit or loss on the same basis as would be required if the related assets or liabilities were disposed of. That is, when the Group loses control of a subsidiary, all gains or losses previously recognized in other comprehensive income in relation to the subsidiary should be reclassified from equity to profit or loss, if such gains or losses would be reclassified

to profit or loss when the related assets or liabilities are disposed of.

#### B. Subsidiaries included in the consolidated financial statements:

			Owners	_	
Name of	Name of	Main business	December	December	_
investor	subsidiary	activities	31, 2019	31, 2018	Description
Realtek	Leading	Investment	100%	100%	
Semiconductor	Enterprises	holdings			
Corporation	Limited	C			
Realtek	Amber Universal	//	100%	100%	
Semiconductor	Inc.				
Corporation					
Realtek	Realtek	ICs	89%	89%	
Semiconductor	Singapore	manufacturing,			
Corporation	Private Limited	•			
		-			
		*			
		•			
	Bluocean Inc.		100%	100%	
		holdings			
•	Tolont Foolo	"	1000/	100%	
	•	"	100%	100%	
	Enterprise me.				
•	Realtek	//	100%	100%	
Semiconductor	Investment				
Corporation	Singapore				
-	Private Limited				
Realtek	Realsun	//	100%	100%	
Semiconductor	Investment Co.,				
Corporation	Ltd.				
	•	//	100%	100%	
	-				
-			1000/	1000/	
	•	//	100%	100%	
•		ICs	100%	100%	
			10070	10070	
		•			
1	1	•			
		sales, and			
		marketing			
Realtek Semiconductor Corporation Realtek Semiconductor Corporation  Realtek Semiconductor Corporation Realtek Semiconductor Corporation Realtek Semiconductor Corporation Realtek Semiconductor Corporation Realtek Semiconductor	Amber Universal Inc.  Realtek Singapore Private Limited  Bluocean Inc.  Talent Eagle Enterprise Inc.  Realtek Investment Singapore Private Limited Realsun Investment Co.,	ICs manufacturing, design, research, development, sales, and marketing Investment holdings  // // // // // ICs manufacturing, design, research, development, sales, and	89% 100% 100%	89% 100% 100%	

			Ownersh	nip (%)	
Name of	Name of	Main business	December	December	_
investor	subsidiary	activities	31, 2019	31, 2018	Description
Realtek Semiconductor Corporation	Bobitag Inc.	Manufacture and installation of computer equipment and wholesale, retail and related service of electronic materials and information / software	67%	67%	
Leading Enterprises Limited	Realtek Semiconductor (Japan) Corp.	ICs design,sales and consultancy	100%	100%	
Leading Enterprises Limited	Circon Universal Inc.	Investment holdings	100%	100%	
Leading Enterprises Limited	Realtek Singapore Private Limited	ICs manufacturing, design, research, development, sales, and marketing	11%	11%	
Amber Universal Inc.	Realtek Semiconductor (HK) Limited	Information services and technical support	100%	100%	
Amber Universal Inc.	Realtek Semiconductor (Shen Zhen) Corp.	R&D and technical support	100%	100%	
Empsonic Enterprises Inc.	Realsil Microelectronics Corp.	11	100%	100%	
Realtek Singapore Private Limited	Cortina Access Inc.	R&D and information services	100%	100%	
Realtek Singapore Private Limited	Cortina Systems Taiwan Limited	R&D and technical support	100%	100%	

		<u>-</u>	Ownership (%)		_
Name of	Name of	Main business	December	December	
investor	subsidiary	activities	31, 2019	31, 2018	Description
Realtek	Cortina Network	R&D and	100%	100%	
Singapore	Systems	technical support			
Private Limited	Shanghai Co., Ltd.				
Talent Eagle	Ubilinx	R&D and	100%	100%	
Enterprise Inc.	Technology Inc.	information services			
Realtek	Empsonic	Investment	100%	100%	
Singapore	Enterprises Inc.	holdings			
Private Limited					
Realtek	Realtek	R&D and	100%	100%	
Singapore	Viet Nam	technical support			
Private Limited	Co., Ltd.				
Realtek	RayMX	ICs	29%	29%	
Singapore	Microelectronics	manufacturing,			
Private Limited	Corp.	design, research,			
		development,			
		sales, and			
		marketing			
Realsil	RayMX	//	71%	71%	
Microelectronics	Microelectronics				
Corp.	Corp.				

- C. Subsidiaries not included in the consolidated financial statements: None.
- D. Adjustments for subsidiaries with different balance sheet dates: None.
- E. Significant restrictions: None.
- F. Subsidiaries that have non-controlling interests that are material to the Group: None.

#### (4) Foreign currency translation

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the "functional currency"). The consolidated financial statements are presented in New Taiwan dollars, which is the Company's functional and presentation currency.

#### A. Foreign currency transactions and balances

(a) Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are remeasured. Foreign exchange gains and losses resulting from the settlement of such transactions are recognized in profit or loss in the period in which they arise.

- (b) Monetary assets and liabilities denominated in foreign currencies at the period end are retranslated at the exchange rates prevailing at the balance sheet date. Exchange differences arising upon re-translation at the balance sheet date are recognized in profit or loss.
- (c) Non-monetary assets and liabilities denominated in foreign currencies held at fair value through profit or loss are re-translated at the exchange rates prevailing at the balance sheet date; their translation differences are recognized in profit or loss. Non-monetary assets and liabilities denominated in foreign currencies held at fair value through other comprehensive income are re-translated at the exchange rates prevailing at the balance sheet date; their translation differences are recognized in other comprehensive income. However, non-monetary assets and liabilities denominated in foreign currencies that are not measured at fair value are translated using the historical exchange rates at the dates of the initial transactions.
- (d) All other foreign exchange gains and losses based on the nature of those transactions are presented in the statement of comprehensive income within 'other gains and losses'.

#### B. Translation of foreign operations

- (a) The operating results and financial position of all the group entities, associates and joint arrangements that have a functional currency different from the presentation currency are translated into the presentation currency as follows:
  - i. Assets and liabilities for each balance sheet presented are translated at the closing exchange rate at the date of that balance sheet;
  - ii. Income and expenses for each statement of comprehensive income are translated at average exchange rates of that period; and
  - iii. All resulting exchange differences are recognized in other comprehensive income.
- (b) When the foreign operation partially disposed of or sold is an associate, exchange differences that were recorded in other comprehensive income are proportionately reclassified to profit or loss as part of the gain or loss on sale. In addition, even when the Group retains partial interest in the former foreign associate after losing significant influence over the former foreign associate, such transactions should be accounted for as disposal of all interest in these foreign operations.
- (c) Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated at the closing exchange rates at the balance sheet date.

#### (5) Classification of current and non-current items

- A. Assets that meet one of the following criteria are classified as current assets; otherwise they are classified as non-current assets:
  - (a) Assets arising from operating activities that are expected to be realised, or are intended to be sold or consumed within the normal operating cycle;
  - (b) Assets held mainly for trading purposes;
  - (c) Assets that are expected to be realised within twelve months from the balance sheet date;

- (d) Cash and cash equivalents, excluding restricted cash and cash equivalents and those that are to be exchanged or used to settle liabilities more than twelve months after the balance sheet date. Otherwise the Group classified as non-current assets.
- B. Liabilities that meet one of the following criteria are classified as current liabilities; otherwise they are classified as non-current liabilities:
  - (a) Liabilities that are expected to be settled within the normal operating cycle;
  - (b) Liabilities arising mainly from trading activities;
  - (c) Liabilities that are to be settled within twelve months from the balance sheet date;
  - (d) Liabilities for which the repayment date cannot be extended unconditionally to more than twelve months after the balance sheet date. Terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

Otherwise the Group classified as non-current liabilities.

#### (6) Cash equivalents

Cash equivalents refer to short-term, highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value. Time deposits that meet the definition above and are held for the purpose of meeting short-term cash commitments in operations are classified as cash equivalents.

#### (7) Financial assets at fair value through profit or loss

- A. Financial assets at fair value through profit or loss are financial assets that are not measured at amortised cost or fair value through other comprehensive income. Financial assets at amortised cost or fair value through other comprehensive income are designated as at fair value through profit or loss at initial recognition when they eliminate or significantly reduce a measurement or recognition inconsistency.
- B. On a regular way purchase or sale basis, financial assets at fair value through profit or loss are recognized and derecognized using trade date accounting.
- C. At initial recognition, the Group measures the financial assets at fair value and recognizes the transaction costs in profit or loss. The Group subsequently measures the financial assets at fair value, and recognizes the gain or loss in profit or loss.
- D. The Group recognizes the dividend income when the right to receive payment is established, future economic benefits associated with the dividend will flow to the Group and the amount of the dividend can be measured reliably.

#### (8) Financial assets at fair value through other comprehensive income

- A. Financial assets at fair value through other comprehensive income comprise equity securities which are not held for trading, and for which the Group has made an irrevocable election at initial recognition to recognize changes in fair value in other comprehensive income.
- B. On a regular way purchase or sale basis, financial assets at fair value through other comprehensive income are recognized and derecognized using trade date accounting.

C. At initial recognition, the Group measures the financial assets at fair value plus transaction costs. The Group subsequently measures the financial assets at fair value:

The changes in fair value of equity investments that were recognized in other comprehensive income are reclassified to retained earnings and are not reclassified to profit or loss following the derecognition of the investment. Dividends are recognized as revenue when the right to receive payment is established, future economic benefits associated with the dividend will flow to the Group and the amount of the dividend can be measured reliably.

#### (9) Financial assets at amortised cost

The Group's time deposits which do not fall under cash equivalents are those with a short maturity period and are measured at initial investment amount as the effect of discounting is immaterial.

#### (10) Accounts receivable

- A. Accounts receivable entitle the Group a legal right to receive consideration in exchange for transferred goods or rendered services.
- B. The short-term accounts and notes receivable without bearing interest are subsequently measured at initial invoice amount as the effect of discounting is immaterial.

#### (11) Impairment of financial assets

For financial assets at amortised cost, at each reporting date, the Group recognizes the impairment provision for 12 months expected credit losses if there has not been a significant increase in credit risk since initial recognition or recognizes the impairment provision for the lifetime expected credit losses (ECLs) if such credit risk has increased since initial recognition after taking into consideration all reasonable and verifiable information that includes forecasts. On the other hand, for accounts receivable that do not contain a significant financing component, the Group recognizes the impairment provision for lifetime ECLs.

#### (12) Derecognition of financial assets

The Group derecognizes a financial asset when the contractual rights to receive the cash flows from the financial asset expire.

#### (13) Operating leases (lessor)

Lease income from an operating lease (net of any incentives given to the lessee) is recognized in profit or loss on a straight-line basis over the lease term.

#### (14) Inventories

Inventories are stated at the lower of cost and net realisable value. Cost is determined using the weighted-average method. The cost of finished goods and work in progress comprises raw materials, direct labour, other direct costs and related production overheads (allocated based on normal operating capacity). It excludes borrowing costs. The item by item approach is used in applying the lower of cost and net realisable value. Net realisable value is the estimated selling price in the ordinary course of business, less the estimated cost of completion and applicable variable selling expenses.

#### (15) Investments accounted for under equity method / associates

- A. Associates are all entities over which the Group has significant influence but not control. In general, it is presumed that the investor has significant influence, if an investor holds, directly or indirectly 20 percent or more of the voting power of the investee. Investments in associates are accounted for under equity method and are initially recognized at cost.
- B. The Group's share of its associates' post-acquisition profits or losses is recognized in profit or loss, and its share of post-acquisition movements in other comprehensive income is recognized in other comprehensive income. When the Group's share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Group does not recognize further losses, unless it has incurred legal or constructive obligations or made payments on behalf of the associate.
- C. When changes in an associate's equity do not arise from profit or loss or other comprehensive income of the associate and such changes do not affect the Group's ownership percentage of the associate, the Group recognizes change in ownership interests in the associate in 'capital surplus' in proportion to its ownership.
- D. Unrealised gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. Unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates have been adjusted where necessary to ensure consistency with the policies adopted by the Group.
- E. In the case that an associate issues new shares and the Group does not subscribe or acquire new shares proportionately, which results in a change in the Group's ownership percentage of the associate but maintains significant influence on the associate, then 'capital surplus' and 'investments accounted for under equity method' shall be adjusted for the increase or decrease of its share of equity interest. If the above condition causes a decrease in the Group's ownership percentage of the associate, in addition to the above adjustment, the amounts previously recognized in other comprehensive income in relation to the associate are reclassified to profit or loss proportionately on the same basis as would be required if the relevant assets or liabilities were disposed of.
- F. Upon loss of significant influence over an associate, the Group remeasures any investment retained in the former associate at its fair value. Any difference between fair value and carrying amount is recognized in profit or loss.
- G. When the Group disposes its investment in an associate and loses significant influence over this associate, the amounts previously recognized in other comprehensive income in relation to the associate, are reclassified to profit or loss, on the same basis as would be required if the relevant assets or liabilities were disposed of. If it retains significant influence over this associate, the amounts previously recognized in other comprehensive income in relation to the associate are reclassified to profit or loss proportionately in accordance with the aforementioned approach.

#### (16) Property, plant and equipment

- A. Property, plant and equipment are initially recorded at cost. Borrowing costs incurred during the construction period are capitalised.
- B. Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. All other repairs and maintenance are charged to profit or loss during the financial period in which they are incurred.
- C. Other property, plant and equipment apply cost model and are depreciated using the straight-line method to allocate their cost over their estimated useful lives. Each part of an item of property, plant and equipment with a cost that is significant in relation to the total cost of the item must be depreciated separately.
- D. The assets' residual values, useful lives and depreciation methods are reviewed, and adjusted if appropriate, at each financial year-end. If expectations for the assets' residual values and useful lives differ from previous estimates or the patterns of consumption of the assets' future economic benefits embodied in the assets have changed significantly, any change is accounted for as a change in estimate under IAS 8, 'Accounting Policies, Changes in Accounting Estimates and Errors', from the date of the change. The estimated useful lives of the fixed assets are as follows: buildings 10~55 years and other fixed assets 3~5 years.

#### (17) Leasing arrangements (lessee) — right-of-use assets/ lease liabilities

#### Effective 2019

- A. Leases are recognized as a right-of-use asset and a corresponding lease liability at the date at which the leased asset is available for use by the Group.
- B. Lease liabilities include the net present value of the remaining lease payments at the commencement date, discounted using the incremental borrowing interest rate. Fixed payments, less any lease incentives receivable.
  - The Group subsequently measures the lease liability at amortised cost using the interest method and recognizes interest expense over the lease term. The lease liability is remeasured and the amount of remeasurement is recognized as an adjustment to the right-of-use asset when there are changes in the lease term or lease payments do not arise from contract modifications.
- C. At the commencement date, the right-of-use asset is stated at cost comprising the following:
  - (a) The amount of the initial measurement of lease liability; and
  - (b) Any lease payments made at or before the commencement date.

The right-of-use asset is measured subsequently using the cost model and is depreciated from the commencement date to the earlier of the end of the asset's useful life or the end of the lease term. When the lease liability is remeasured, the amount of remeasurement is recognized as an adjustment to the right-of-use asset.

#### (18) Operating leases (lessee)

#### Applicable for 2018

Payments made under an operating lease (net of any incentives received from the lessor) are recognized in profit or loss on a straight-line basis over the lease term.

#### (19) Investment property

An investment property is stated initially at its cost and measured subsequently using the cost model. Except for land, investment property is depreciated on a straight-line basis over its estimated useful life of 20 years.

#### (20) Intangible assets

#### A. Computer software

Computer software is stated at cost and amortised on a straight-line basis over its estimated useful life of 1 to 5 years.

#### B. Goodwill

Goodwill arises in a business combination accounted for by applying the acquisition method.

#### C. Other intangible assets

Separately acquired intangible assets with a finite useful life are stated at cost, net of accumulated amortisation and accumulated impairment. Intangible assets acquired in a business combination are recognized at fair value at acquisition date. The amortisation amounts of separately and consolidated acquired intangible assets were amortised on a straight-line basis over their estimated useful lives of 2-5 years.

#### (21) <u>Impairment of non-financial assets</u>

- A. The Group assesses at each balance sheet date the recoverable amounts of those assets where there is an indication that they are impaired. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell or value in use. When the circumstances or reasons for recognizing impairment loss for an asset in prior years no longer exist or diminish, the impairment loss is reversed. The increased carrying amount due to reversal should not be more than what the depreciated or amortised historical cost would have been if the impairment had not been recognized.
- B. The recoverable amounts of goodwill is evaluated periodically. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. Impairment loss of goodwill previously recognized in profit or loss shall not be reversed in the following years.

#### (22) Borrowings

Borrowings comprise short-term bank borrowings. Borrowings are recognized initially at fair value, net of transaction costs incurred.

#### (23) Notes and accounts payable

- A. Accounts payable are liabilities for purchases of raw materials, goods or services and notes payable are those resulting from operating and non-operating activities.
- B. The short-term notes and accounts payable without bearing interest are subsequently measured at initial invoice amount as the effect of discounting is immaterial.

#### (24) Derecognition of financial liabilities

A financial liability is derecognized when the obligation under the liability specified in the contract is discharged or cancelled or expires.

#### (25) Provisions

Provisions are recognized when the Group has a present legal or constructive obligation as a result of past events, and it is probable that an outflow of economic resources will be required to settle the obligation and the amount of the obligation can be reliably estimated. Provisions are measured at the present value of the expenditures expected to be required to settle the obligation on the balance sheet date.

#### (26) Employee benefits

#### A. Short-term employee benefits

Short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in respect of service rendered by employees in a period and should be recognized as expense in that period when the employees render service.

#### B. Pensions

#### (a) Defined contribution plan

For defined contribution plans, the contributions are recognized as pension expense when they are due on an accrual basis. Prepaid contributions are recognized as an asset to the extent of a cash refund or a reduction in the future payments.

#### (b) Defined benefit plan

i. Net obligation under a defined benefit plan is defined as the present value of an amount of pension benefits that employees will receive on retirement for their services with the Company in current period or prior periods. The liability recognized in the balance sheet in respect of defined benefit pension plans is the present value of the defined benefit obligation at the balance sheet date less the fair value of plan assets. The net defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The rate used to discount is determined by using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related pension

liability; when there is no deep market in high-quality corporate bonds, the Company uses interest rates of government bonds (at the balance sheet date) instead.

ii. Remeasurements arising on defined benefit plans are recognized in other comprehensive income in the period in which they arise and are recorded as retained earnings.

#### C. Employees' compensation and directors' remuneration

Employees' compensation and directors' and remuneration are recognized as expense and liability, provided that such recognition is required under legal or constructive obligation and those amounts can be reliably estimated. Any difference between the resolved amounts and the subsequently actual distributed amounts is accounted for as changes in estimates. If employee compensation is distributed by shares, the Group calculates the number of shares based on the closing price at the previous day of the Board meeting resolution.

#### (27) Income tax

- A. The tax expense for the period comprises current and deferred tax. Tax is recognized in profit or loss, except to the extent that it relates to items recognized in other comprehensive income or items recognized directly in equity, in which cases the tax is recognized in other comprehensive income or equity.
- B. The current income tax expense is calculated on the basis of the tax laws enacted or substantively enacted at the balance sheet date in the countries where the Company and its subsidiaries operate and generate taxable income. Management periodically evaluates positions taken in tax returns with respect to situations in accordance with applicable tax regulations. It establishes provisions where appropriate based on the amounts expected to be paid to the tax authorities. An additional tax is levied on the unappropriated retained earnings and is recorded as income tax expense in the year the stockholders resolve to retain the earnings.
- C. Deferred tax is recognized, using the balance sheet liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated balance sheet. However, the deferred tax is not accounted for if it arises from initial recognition of goodwill or of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit nor loss. Deferred tax is provided on temporary differences arising on investments in subsidiaries and associates, except where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the balance sheet date and are expected to apply when the related deferred tax asset is realised or the deferred tax liability is settled.
- D. Deferred tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised. At each balance sheet date, unrecognized and recognized deferred tax assets are reassessed.

E. A deferred tax asset shall be recognized for the carryforward of unused tax credits resulting from research and development expenditures to the extent that it is possible that future taxable profit will be available against which the unused tax credits can be utilised.

#### (28) Share capital

Ordinary shares are classified as equity. Incremental costs directly attributable to the issue of new shares are shown in equity as a deduction, net of tax, from the proceeds.

#### (29) Dividends

Dividends are recorded in the Company's financial statements in the period in which they are resolved by the Company's shareholders. Cash dividends are recorded as liabilities; stock dividends are recorded as stock dividends to be distributed and are reclassified to ordinary shares on the effective date of new shares issuance.

#### (30) Revenue recognition

#### A. Sales of goods

- (a) The Group manufactures and sells various integrated circuit related products. Sales are recognized when control of the products has transferred, being when the products are delivered to the customers, and there is no unfulfilled obligation that could affect the customer's acceptance of the products. Delivery occurs when the products have been shipped to the specific location, the risks of obsolescence and loss have been transferred to the wholesaler, and either the wholesaler has accepted the products in accordance with the sales contract, or the Group has objective evidence that all criteria for acceptance have been satisfied.
- (b) Revenue from these sales is recognized based on the price specified in the contract. A refund liability is recognized for expected sales discounts and allowances payable to customers in relation to sales made until the end of the reporting period. As the time interval between the transfer of committed goods or service and the payment of customer does not exceed one year, the Group does not adjust the transaction price to reflect the time value of money.
- (c) A receivable is recognized when the goods are delivered as this is the point in time that the consideration is unconditional because only the passage of time is required before the payment is due.

#### B. Services revenue

Revenue from design, royalty and technical services is recognized after completing the services in which the services are rendered.

#### (31) Operating segments

Operating segments are reported in a manner consistent with the internal reporting provided to the Chief Operating Decision-Maker. The Group's Chief Operating Decision-Maker is responsible for allocating resources and assessing performance of the operating segments.

## 5. <u>CRITICAL ACCOUNTING JUDGEMENTS</u>, <u>ESTIMATES AND KEY SOURCES OF ASSUMPTION UNCERTAINTY</u>

The preparation of these consolidated financial statements requires management to make critical judgements in applying the Group's accounting policies and make critical assumptions and estimates concerning future events. Assumptions and estimates may differ from the actual results and are continually evaluated and adjusted based on historical experience and other factors. Such assumptions and estimates have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year; and the related information is addressed below:

#### (1) <u>Critical judgements in applying the Group's accounting policies</u> None.

#### (2) Critical accounting estimates and assumptions

Evaluation of inventories

As inventories are stated at the lower of cost and net realisable value, the Group must determine the net realisable value of inventories on balance sheet date using judgements and estimates. Due to the rapid technology innovation, the Group evaluates the amounts of normal inventory consumption, obsolete inventories or inventories without market selling value on balance sheet date, and writes down the cost of inventories to the net realisable value. Such an evaluation of inventories is principally based on the demand for the products within the specified period in the future. Therefore, there might be material changes to the evaluation.

As of December 31, 2019, the carrying amount of inventories was \$7,391,535.

#### 6. DETAILS OF SIGNIFICANT ACCOUNTS

#### (1) Cash and cash equivalents

	December 31, 2019		December 31, 2018	
Cash on hand and revolving funds	\$	841	\$	1,819
Checking accounts and demand deposits		4,221,046		3,248,619
Time deposits		1,506,024		1,059,213
Total	\$	5,727,911	\$	4,309,651

The Group transacts with a variety of financial institutions all with high credit quality to disperse credit risk, so it expects that the probability of counterparty default is remote.

#### (2) Financial assets at fair value through profit or loss

Items		nber 31, 2019	Dece	ember 31, 2018
Current items:				
Financial assets mandatorily measured at fair value				
through profit or loss				
Listed stocks	\$	69,001	\$	69,781
Beneficiary certificates		5,011		1,251,322
	\$	74,012	\$	1,321,103

A. Amounts recognized in profit or loss in relation to financial assets at fair value through profit or loss are listed below:

	Years ended December 31,				
		2019	2018		
Financial assets mandatorily measured at fair	_				
value through profit or loss					
Equity instruments	(\$	780) (\$	27,094)		
Beneficiary certificates		6,544	7,854		
	\$	5,764 (\$	19,240)		

- B. The Group has no financial assets at fair value through profit or loss pledged to others.
- (3) Financial assets at fair value through other comprehensive income

Items	Dece	December 31, 2019		December 31, 2018	
Non-current items: Equity instruments					
Listed stocks	\$	492,258	\$	253,908	
Emerging stocks		13,357		339,027	
Unlisted stocks		1,353,863		1,058,137	
	\$	1,859,478	\$	1,651,072	

- A. The Group has elected to classify equity instruments investments that are considered to be strategic investments as financial assets at fair value through other comprehensive income. The fair value of such investments amounted to \$1,859,478 and \$1,651,072 on December 31, 2019 and 2018, respectively.
- B. Amounts recognized in other comprehensive income in relation to the financial assets at fair value through other comprehensive income are listed below:

	Years ended December 31,					
		2019		2018		
Equity instruments at fair value through other		_		_		
comprehensive income						
Fair value change recognised in other						
comprehensive income	\$	227,352	\$	165,659		
Cumulative losses reclassified to	\$	41,212	\$	-		
retained earnings due to derecognition						

C. The Group has no financial assets at fair value through other comprehensive income pledged to others.

#### (4) Financial assets at amortised cost

Items		December 31, 2019		December 31, 2018	
Current items:					
Time deposits	\$	39,558,054	\$	31,286,209	
Non-current items:					
Time deposits	\$	69,477	\$		

- A. Details of the Group's financial assets at amortised cost pledged to others as collateral are provided in Note 8.
- B. Information relating to credit risk of financial assets at amortised cost is provided in Note 12(2).

#### (5) Accounts receivable

	Dece	mber 31, 2019	December 31, 2018	
Accounts receivable	\$	8,321,221	\$	5,693,973
Accounts receivable - related parties		2,209,114		1,783,992
Less: Allowance for bad debts	(	79,607) (	(	58,172)
	\$	10,450,728	\$	7,419,793

A. The aging analysis of accounts receivable is as follows:

	December 31, 2019		December 31, 2018	
Not past due	\$	10,153,312	\$	7,460,264
Up to 30 days		376,366		17,665
31 to 90 days		1		-
Over 90 days		656		36
	<u>\$</u>	10,530,335	\$	7,477,965

The above aging analysis is based on past due date.

- B. As of December 31, 2019 and 2018, accounts receivable was all from contracts with customers. And as of January 1, 2018, the balance of receivables from contracts with customers amounted to \$6,946,663.
- C. The Group has no accounts receivable pledged to others.
- D. Information relating to credit risk of accounts receivable is provided in Note 12(2).

#### (6) Inventories

	 December 31, 2019					
		Al	lowance for			
		obso	lescence and			
	 Cost market value decline			Book value		
Raw materials	\$ 1,054,744	(\$	26,672)	\$	1,028,072	
Work in process	4,624,767	(	355,239)		4,269,528	
Finished goods	 2,550,754	(	456,819)		2,093,935	
Total	\$ 8,230,265	(\$	838,730)	\$	7,391,535	

#### December 31, 2018 Allowance for obsolescence and Cost market value decline Book value Raw materials 399,009 23,147) \$ 375,862 Work in process 3,614,676 ( 218,774) 3,395,902 Finished goods 434,471) 2,090,241 2,524,712 6,538,397 (\$ Total 676,392) \$ 5,862,005

Operating costs incurred on inventories for the years ended December 31, 2019 and 2018 were as follows:

	Years ended December 31,			
		2019		2018
Cost of inventories sold and others	\$	33,813,815	\$	25,003,275
Loss on market value decline and obsolete and				
slow-moving inventories		166,028		138,066
Loss on scrap inventory		180,847		203,535
	\$	34,160,690	\$	25,344,876

#### (7) Investments accounted for under equity method

		December 31, 2019		December 31, 2018	
Technology Partner V Venture Capital Corporation	\$	22,247	\$	36,917	
5V Technologies, Taiwan Ltd.		-		16,106	
Estinet Technologies Incorporation		3,701		40,682	
Innorich Venture Capital Corp.		160,024		167,923	
	\$	185,972	\$	261,628	

- A. The loss on investments accounted for under equity method amounted to \$23,833 and \$43,307 for the years ended December 31, 2019 and 2018, respectively.
- B. The Group's held stocks in Technology Partner V Venture Capital Corporation decreased due to the return of capital in August of 2019 and the proceeds from stocks returned was \$17,908.
- C. Certain investments mentioned above have been impaired, and the Group recognized impairment loss amounting to \$41,397 for the year ended December 31, 2019.

#### (8) Property, plant and equipment

	Buildings	Machinery	Test equipment	Office equipment	Others	Total
At January 1, 2019						
Cost	\$ 3,246,163	\$ 3,726,816	\$ 2,225,944	\$ 232,162	\$ 754,293	\$ 10,185,378
Accumulated						
depreciation and						
impairment	(_1,197,942)	(_3,456,955)	(1,514,287)		· -	
	\$ 2,048,221	\$ 269,861	\$ 711,657	\$ 80,460	\$ 206,379	\$ 3,316,578
<u>2019</u>						
Opening net book amount	\$ 2,048,221	\$ 269,861	\$ 711,657	\$ 80,460	\$ 206,379	\$ 3,316,578
Additions	_	147,583	425,288	51,034	126,070	749,975
Disposals	( 18)	-	,			
Reclassifications	-	27,167	-	,	( 27,167)	-
Depreciation	( 121,031)		( 318,746)			( 607,020)
Net exchange difference	( 10,365)	2,109	( 4,429)			( 13,122)
Closing net book	<del></del>			<u> </u>	· `——	
amount	\$ 1,916,807	\$ 369,696	\$ 813,665	\$ 104,001	\$ 241,993	\$ 3,446,162
At December 31, 2019	φ 1,710,007	<del>φ 307,070</del>	Φ 015,005	φ 104,001	Ψ 2+1,773	φ 3,440,102
	¢ 2 222 502	¢ 2 000 552	¢ 2.622.659	¢ 200.014	¢ 050 212	¢ 10 077 720
Cost Accumulated	\$ 3,222,502	\$ 3,899,552	\$ 2,623,658	\$ 280,814	\$ 850,212	\$ 10,876,738
depreciation and						
impairment	( 1,305,695)	( 3,529,856)	( 1,809,993	176,813	) ( 608,219)	( 7,430,576)
тирантист	<del></del>	<u> </u>	1	,		
	\$ 1,916,807	\$ 369,696	\$ 813,665	\$ 104,001	\$ 241,993	\$ 3,446,162
	Buildings	Machinery	Test equipment	Office equipment	Others	Total
	Dundings	wacmiery	1 est equipment	Office equipment	Others	10141
At January 1, 2018						
Cost	\$ 3,205,530	\$ 3,611,076	\$ 1,783,425	\$ 204,663	\$ 722,408	\$ 9,527,102
Accumulated						
depreciation and						
impairment	(_1,074,899)	(_3,377,730)	(1,276,016)	(137,072)	(498,436)	$(\underline{6,364,153})$
	\$ 2,130,631	\$ 233,346	\$ 507,409	\$ 67,591	\$ 223,972	\$ 3,162,949
2018				Ψ 01,371	$\psi$ $223,712$	
Opening net book			, , , , , , , , , , , , , , , , , , , ,	φ 07,371	Ψ 223,712	+,,,-
	\$ 2.130.631	\$ 233.346	· · · · · · · · · · · · · · · · · · ·	·		
	\$ 2,130,631	\$ 233,346	\$ 507,409	\$ 67,591		
amount Additions		\$ 233,346 124,429	\$ 507,409	·		\$ 3,162,949
amount	\$ 2,130,631 6,238 ( 9)		· · · · · · · · · · · · · · · · · · ·	\$ 67,591 35,609	\$ 223,972 84,858	
amount Additions	6,238		\$ 507,409 455,980 ( 37)	\$ 67,591 35,609	\$ 223,972 84,858	\$ 3,162,949 707,114 ( 143)
amount Additions Disposals	6,238 ( 9)	124,429	\$ 507,409 455,980 ( 37)	\$ 67,591 35,609 0 ( 97) ( 567)	\$ 223,972 84,858 0 ( 50,826)	\$ 3,162,949 707,114 ( 143) ( 986)
amount Additions Disposals Reclassifications Depreciation	6,238 ( 9) 50,407 ( 130,452)	124,429	\$ 507,409 455,980 ( 37)	\$ 67,591 35,609 0 ( 97) ( 567) 0 ( 21,630)	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744)	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037)
amount Additions Disposals Reclassifications Depreciation Net exchange difference	6,238 ( 9) 50,407	124,429 - - ( 88,176)	\$ 507,409 455,980 ( 37) - ( 251,035)	\$ 67,591 35,609 0 ( 97) ( 567) 0 ( 21,630)	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744)	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037)
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book	6,238 ( 9) 50,407 ( 130,452) ( 8,594)	124,429 ( 88,176) 262	\$ 507,409 455,980 ( 37) - ( 251,035) ( 660)	\$ 67,591 35,609 ( 97) ( 567) ( 21,630) ( 446)	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744) 0 ( 2,881)	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037) ( 12,319)
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book amount	6,238 ( 9) 50,407 ( 130,452)	124,429 - ( 88,176) 262	\$ 507,409 455,980 ( 37) - ( 251,035)	\$ 67,591 35,609 0 ( 97) ( 567) 0 ( 21,630)	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744)	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037)
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book amount At December 31, 2018	6,238 ( 9) 50,407 ( 130,452) ( 8,594) \$ 2,048,221	124,429 ( 88,176) 262 \$ 269,861	\$ 507,409 455,980 ( 37) - ( 251,035) ( 660) \$ 711,657	\$ 67,591 35,609 0 ( 97) 0 ( 567) 1 ( 21,630) 0 ( 446) \$ 80,460	\$ 223,972 84,858 ) - ) ( 50,826) ) ( 48,744) ) ( 2,881) \$ 206,379	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037) ( 12,319) \$ 3,316,578
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book amount At December 31, 2018 Cost	6,238 ( 9) 50,407 ( 130,452) ( 8,594)	124,429 ( 88,176) 262	\$ 507,409 455,980 ( 37) - ( 251,035) ( 660)	\$ 67,591 35,609 ( 97) ( 567) ( 21,630) ( 446)	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744) 0 ( 2,881)	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037) ( 12,319)
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book amount At December 31, 2018 Cost Accumulated	6,238 ( 9) 50,407 ( 130,452) ( 8,594) \$ 2,048,221	124,429 ( 88,176) 262 \$ 269,861	\$ 507,409 455,980 ( 37) - ( 251,035) ( 660) \$ 711,657	\$ 67,591 35,609 0 ( 97) 0 ( 567) 1 ( 21,630) 0 ( 446) \$ 80,460	\$ 223,972 84,858 ) - ) ( 50,826) ) ( 48,744) ) ( 2,881) \$ 206,379	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037) ( 12,319) \$ 3,316,578
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book amount At December 31, 2018 Cost Accumulated depreciation and	6,238 ( 9) 50,407 ( 130,452) ( 8,594) \$ 2,048,221 \$ 3,246,163	124,429 ( 88,176) 262 \$ 269,861 \$ 3,726,816	\$ 507,409 455,980 ( 37) - ( 251,035) ( 660) \$ 711,657 \$ 2,225,944	\$ 67,591 35,609 0 ( 97) 1 ( 567) 2 ( 21,630) 2 ( 446) \$ 80,460 \$ 232,162	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744) 0 ( 2,881) \$ 206,379 \$ 754,293	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037) ( 12,319) \$ 3,316,578 \$ 10,185,378
amount Additions Disposals Reclassifications Depreciation Net exchange difference Closing net book amount At December 31, 2018 Cost Accumulated	6,238 ( 9) 50,407 ( 130,452) ( 8,594) \$ 2,048,221	124,429 ( 88,176) 262 \$ 269,861	\$ 507,409 455,980 ( 37) - ( 251,035) ( 660) \$ 711,657 \$ 2,225,944	\$ 67,591 35,609 0 ( 97) 1 ( 567) 2 ( 21,630) 2 ( 446) \$ 80,460 \$ 232,162	\$ 223,972 84,858 0 ( 50,826) 0 ( 48,744) 0 ( 2,881) \$ 206,379 \$ 754,293	\$ 3,162,949 707,114 ( 143) ( 986) ( 540,037) ( 12,319) \$ 3,316,578

A. Amount of borrowing costs capitalised as part of property, plant and equipment: None.

B. The Group has no property, plant and equipment pledged to others.

## (9) Leasing arrangements—lessee

## Effective 2019

- A. The Group leases various assets including land and buildings. Lease terms are negotiated on an individual basis and contain a wide range of different terms and conditions. The lease agreements do not impose covenants, but leased assets may not be used as security for borrowing purposes.
- B. The carrying amount of right-of-use assets and the depreciation are as follows:

			Y	ear ended
	<u>_1</u>	December 31, 2019	Decer	mber 31, 2019
		Carrying amount	De	epreciation
Land	\$	1,082,850	\$	20,983
Buildings	_	320,395		68,826
	<u>\$</u>	1,403,245	\$	89,809

- C. For the year ended December 31, 2019, the additions to right-of-use assets were \$432,193.
- D. The information on profit and loss accounts relating to lease contracts is as follows:

	Ye	ar ended
	Decemb	per 31, 2019
Items affecting profit or loss		
Interest expense on lease liabilities	<u>\$</u>	23,915

E. For the year ended December 31, 2019, the Group's total cash outflow for leases were \$100,647.

## (10) <u>Investment property</u>

	Buildings						
		2019		2018			
At January 1				_			
Cost	\$	83,688	\$	85,694			
Accumulated depreciation and impairment	(	28,820)	(	25,440)			
	\$	54,868	\$	60,254			
Opening net book value	\$	54,868	\$	60,254			
Depreciation	(	3,977)	(	4,047)			
Net exchange difference	(	1,755)	(	1,339)			
Closing net book amount	\$	49,136	\$	54,868			
At December 31							
Cost	\$	80,799	\$	83,688			
Accumulated depreciation and impairment	(	31,663)	(	28,820)			
	\$	49,136	\$	54,868			

A. Rental income from the lease of the investment property and direct operating expenses arising from the investment property are shown below:

	Years ended December 31,					
		2019		2018		
Rental income from the lease of the investment						
property	\$	1,486	\$	6,298		
Operating expenses arising from the						
investment property that generated rental						
income during the year	\$	3,977	\$	4,047		

B. The Group's investment property is located in Mainland China. The fair value is based on valuation information from Information Centre of Real Estate in local governments in Mainland China and is adjusted accordingly. As of December 31, 2019 and 2018, the fair value was \$134,439 and \$136,949 and classified as level 3, respectively.

## (11) <u>Intangible assets</u>

	(	Computer	I	ntellectual					
		software		property		Goodwill		Others	Total
At January 1, 2019									
Cost	\$	3,234,611	\$	3,911,807	\$	650,778	\$	298,916 \$	8,096,112
Accumulated amortisation									
and impairment	(	2,738,897)	(	3,149,643)	(	350,621)	(	170,702) (	6,409,863)
	\$	495,714	\$	762,164	\$	300,157	\$	128,214 \$	1,686,249
<u>2019</u>						_			_
Opening net book amount	\$	495,714	\$	762,164	\$	300,157	\$	128,214 \$	1,686,249
Additions		847,571		596,018		=		597	1,444,186
Transfers		1,800		-		-	(	2,326) (	526)
Amortisation	(	568,851)	(	405,131)		-	(	45,803) (	1,019,785)
Impairment loss		-		-	(	148,086)		- (	148,086)
Net exchange difference	(	14)	(	2,658)	(	5,054)	(	1,352) (	9,078)
Closing net book amount	\$	776,220	\$	950,393	\$	147,017	\$	79,330 \$	1,952,960
At December 31, 2019									
Cost	\$	4,083,596	\$	4,500,995	\$	645,724	\$	291,141 \$	9,521,456
Accumulated amortisation									
and impairment	(	3,307,376)	(	3,550,602)	(	498,707)	(	211,811) (	7,568,496)
	\$	776,220	\$	950,393	\$	147,017	\$	79,330 \$	1,952,960

		Computer software	I	ntellectual property		Goodwill		Others	Total
At January 1, 2018									
Cost	\$	2,772,830	\$	3,751,440	\$	642,134	\$	298,771 \$	7,465,175
Accumulated amortisation									
and impairment	(	2,241,399)	(	2,673,224)	(	350,621)	(	121,576) (	5,386,820)
	\$	531,431	\$	1,078,216	\$	291,513	\$	177,195 \$	2,078,355
<u>2018</u>									
Opening net book amount	\$	531,431	\$	1,078,216	\$	291,513	\$	177,195 \$	2,078,355
Additions		460,145		164,064		-		1,800	626,009
Transfers		1,353		2,096		-	(	10,161) (	6,712)
Amortisation	(	497,239)	(	452,899)		-	(	44,714) (	994,852)
Net exchange difference	_	24	(	29,313)		8,644		4,094 (	16,551)
Closing net book amount	\$	495,714	\$	762,164	\$	300,157	\$	128,214 \$	1,686,249
At December 31, 2018									
Cost	\$	3,234,611	\$	3,911,807	\$	650,778	\$	298,916 \$	8,096,112
Accumulated amortisation									
and impairment	(	2,738,897)	(	3,149,643)	(	350,621)	(	170,702) (	6,409,863)
	\$	495,714	\$	762,164	\$	300,157	\$	128,214 \$	1,686,249

Details of amortisation on intangible assets are as follows:

	Years ended December 31,					
		2018				
Operating costs	\$	4,107	\$	3,907		
Operating expenses		1,015,678		990,945		
	\$	1,019,785	\$	994,852		

#### (12) <u>Impairment of non-financial assets</u>

A. The Group recognized impairment loss for the year ended December 31, 2019 was \$148,086. Details of such loss are as follows:

	Year ended December 31, 2019					
	Recognised in	profit or	Recognised in other			
	loss		comprehensive income			
Impairment loss—Goodwill	\$	148,086	\$ -			

B. Goodwill is allocated to the Group's cash-generating units identified according to operating segment. The recoverable amount of all cash-generating units has been determined based on value-in-use calculations. These calculations use pre-tax cash flow projections based on financial budgets approved by the management covering a five-year period. Cash flows beyond the five-year period are extrapolated using the estimated growth rates stated below.

Due to performance of the products acquiring from merger with Cortina was overestimated, the goodwill assessment for 2019 was conducted which is based on financial budgets estimated by the management covering a five-year period. The discount rate is 14.4%. The following sets forth the key assumptions that influence estimation of recoverable amounts and methods for determining key assumptions:

- (a) Estimation of growth rate: Conservatively estimated the financial budget for the next 5 years at a zero growth rate.
- (b) Costs of goods sold and gross margin: Based on financial budgets estimated by the management covering five-year period and historical experience.
- (c) Estimation of operating expense: Estimated annual operating expenses are based on financial budgets estimated by the management covering five-year period and actual operating expense ratio.

The recoverable amount calculated based on the above assumptions is lower than the sum of carrying value of identifiable assets of the cash-generating unit and goodwill. Thus, there is impairment for the assets. The Group recognized impairment loss for the year ended December 31, 2019.

## (13) Short-term borrowings

Type of borrowings	December 31, 2019	Interest rate range	Collateral
Bank borrowings			
Unsecured borrowings	\$ 18,966,042	0.71%~2.64%	None
Type of borrowings	December 31, 2018	Interest rate range	Collateral
Bank borrowings			
Unsecured borrowings	\$ 14,526,311	0.67%~4.16%	None

Interest expense recognized in profit or loss amounted to \$136,339 and \$140,387 for the years ended December 31, 2019 and 2018, respectively.

## (14) Other payables

	Dece	ember 31, 2019	December 31, 2018		
Accrued salaries	\$	4,041,988	\$	3,390,433	
Payable for employees' compensation		3,978,638		1,884,203	
Other accrued expenses		1,715,223		1,235,690	
Payables on equipment		113,350		110,401	
Payables on software and intellectual property		725,345		684,438	
Others		171,624		237,043	
	\$	10,746,168	\$	7,542,208	

#### (15) Pension

A. (a) The Company and its domestic subsidiaries have a defined benefit pension plan in accordance with the Labor Standards Law, covering all regular employees' service years prior to the enforcement of the Labor Pension Act on July 1, 2005 and service years thereafter of employees who chose to continue to be subject to the pension mechanism under the Law. Under the defined benefit pension plan, two units are accrued for each year of service for the first 15 years and one unit for each additional year thereafter, subject to a maximum of 45 units. Pension benefits are based on the number of units accrued and the average monthly salaries and wages of the last 6 months prior to retirement. The Company and its domestic

subsidiaries contribute monthly an amount equal to 2% of the employees' monthly salaries and wages to the retirement fund deposited with Bank of Taiwan, the trustee, under the name of the independent retirement fund committee. Also, the Company and its domestic subsidiaries would assess the balance in the aforementioned labor pension reserve account by December 31, every year. If the account balance is insufficient to pay the pension calculated by the aforementioned method to the employees expected to qualify for retirement in the following year, the Company and its domestic subsidiaries will make contributions for the deficit by next March.

## (b) The amounts recognized in the balance sheet are determined as follows:

	Decei	mber 31, 2019	December 31, 2018		
Present value of defined benefit obligations	(\$	595,932) (	(\$	568,382)	
Fair value of plan assets		522,312		495,415	
Net liability in the balance sheet	(\$	73,620)	(\$	72,967)	

## (c) Movement in net defined benefit liabilities are as follows:

	Present value of		Fair value of		
	defin	ned benefit	plan	Net defined	
	ob	oligations	assets	bene	efit liability
Year ended December 31, 2019					
At January 1	(\$	568,382)	\$ 495,415	(\$	72,967)
Current service cost	(	2,709)	-	(	2,709)
Interest (expense) income	(	6,366)	5,544	(	822)
	(	577,457)	500,959	(	76,498)
Remeasurements:					
Return on plan assets (excluding amounts		-	24,973		24,973
included in interest income or expense)					
Change in demographic assumptions	(	1,283)	-	(	1,283)
Change in financial assumptions	(	6,415)	-	(	6,415)
Experience adjustments	(	20,397)		(	20,397)
	(	28,095)	24,973	(	3,122)
Pension fund contribution		-	6,000		6,000
Paid pension		9,620	(9,620)		
At December 31	(\$	595,932)	\$ 522,312	(\$	73,620)

	Present value of defined benefit obligations		Fair value of plan assets	Net defined benefit liability	
Year ended December 31, 2018					
At January 1	(\$	536,470)	\$ 473,679	(\$	62,791)
Current service cost	(	2,745)	-	(	2,745)
Interest (expense) income	(	6,675)	5,927	(	748)
	(	545,890)	479,606	(	66,284)
Remeasurements:					
Return on plan assets (excluding amounts included in interest income or expense)		-	13,319		13,319
Change in demographic assumptions	(	1,639)	-	(	1,639)
Change in financial assumptions	(	8,197)	-	(	8,197)
Experience adjustments	(	16,166)		(	16,166)
	(	26,002)	13,319	(	12,683)
Pension fund contribution		-	6,000		6,000
Paid pension		3,510	(3,510)		
At December 31	(\$	568,382)	\$ 495,415	(\$	72,967)

- (d) The Bank of Taiwan was commissioned to manage the Fund of the Company's and domestic subsidiaries' defined benefit pension plan in accordance with the Fund's annual investment and utilisation plan and the "Regulations for Revenues, Expenditures, Safeguard and Utilisation of the Labor Retirement Fund" (Article 6: The scope of utilisation for the Fund includes deposit in domestic or foreign financial institutions, investment in domestic or foreign listed, over-the-counter, or private placement equity securities, investment in domestic or foreign real estate securitization products, etc.). With regard to the utilisation of the Fund, its minimum earnings in the annual distributions on the final financial statements shall be no less than the earnings attainable from the amounts accrued from two-year time deposits with the interest rates offered by local banks.
- (e) The principal actuarial assumptions used were as follows:

	Years ended December 31,				
	2019	2018			
Discount rate	0.8%	1.125%			
Future salary increases	5%	5.25%			

Future mortality rate was estimated based on the 5th Taiwan Standard Ordinary Experience Mortality Table for the years ended December 31, 2019 and 2018.

Because the main actuarial assumption changed, the present value of defined benefit obligation is affected. The analysis was as follows:

	Discou	unt rate	Future salary increases		
	Increase by	Decrease by	Increase by	Decrease by	
	0.25%	0.25%	0.25%	0.25%	
December 31, 2019					
Effect on present value					
of defined benefit obligation	\$ 16,562	(\$ 17,221)	(\$ 16,154)	\$ 15,635	
	Discou	unt rate	Future salar	ry increases	
	Increase by	Decrease by	Increase by	Decrease by	
	0.25%	0.25%	0.25%	0.25%	
December 31, 2018					
Effect on present value of defined benefit obligation	\$ 16,573	(\$ 17,256)	(\$ 16,206)	\$ 15,665	

The sensitivity analysis above is based on one assumption which changed while the other conditions remain unchanged. In practice, more than one assumption may change all at once. The method of analysing sensitivity and the method of calculating net pension liability in the balance sheet are the same.

- (f) Expected contributions to the defined benefit pension plans of the Group for the year ending December 31, 2020 amounts to \$6,000.
- (g) As of December 31, 2019, the weighted average duration of the retirement plan is 13 years. The analysis of timing of the future pension payment was as follows:

Within 1 year	\$ 281,27
2~5 years	112,55
5~10 years	197,51
Over 10 years	36,24
	\$ 627,590

- B. (a) Effective July 1, 2005, the Company and its domestic subsidiaries have established a defined contribution pension plan (the "New Plan") under the Labor Pension Act (the "Act"), covering all regular employees with R.O.C. nationality. Under the New Plan, the Company and its domestic subsidiaries contribute monthly an amount based on 6% of the employees' monthly salaries and wages to the employees' individual pension accounts at the Bureau of Labor Insurance. The benefits accrued are paid monthly or in lump sum upon termination of employment.
  - (b) The Company's mainland China subsidiaries, Realsil Microelectronics Corp., Realtek Semiconductor (Shen Zhen) Corp., Cortina Network Systems Shanghai Co., Ltd., and RayMX Microelectronics Corp. have a defined contribution plan. Monthly contributions to an independent fund administered by the government in accordance with the pension regulations in the People's Republic of China (PRC) are based on certain percentage of employees' monthly salaries and wages. Monthly contributions to an independent fund are

administered by the government. Other than the monthly contributions, the Group has no further obligations.

(c) The pension costs under the defined contribution pension plans of the Group for the years ended December 31, 2019 and 2018 were \$259,176 and \$231,441, respectively.

### (16) Provision

		2019		
At January 1	\$	999,868	\$	901,430
Changes in provision		102,181		98,438
Effect of exchange rate	(	26,240)		
At December 31	\$	1,075,809	\$	999,868

As of December 31, 2019, provisions were estimated for possible infringement litigations.

## (17) Share capital

A. As of December 31, 2019, the Company's authorised capital was \$8,900,000, consisting of 890 million shares of ordinary stock (including 80 million thousand shares reserved for employee stock options), and the paid-in capital was \$5,080,955 with a par value of \$10 (in dollars) per share. All proceeds from shares issued have been collected. The beginning balance and closing balance of the number of the Company's ordinary shares outstanding of the period remain the same as in previous two periods.

	Unit : T	housands of shares
	2019	2018
At January 1	508,095	506,506
Employees' compensation transferred to		
common stock	<u> </u>	1,589
At December 31	508,095	508,095

B. On January 24, 2002, the Company increased its new common stock and sold its old common stock by issuing 13,924 thousand units of GDRs for cash. Each GDR unit represents 4 common stocks, so the total common stocks issued were 55,694 thousand shares. The Company's GDRs are traded in Luxembourg stock exchange. As of December 31, 2019, the outstanding GDRs were 312 thousand units, or 1,249 thousand shares of common stock, representing 0.25% of the Company's total common stocks.

## (18) Capital surplus

Pursuant to the R.O.C. Company Act, capital surplus arising from paid-in capital in excess of par value on issuance of common stocks and donations can be used to cover accumulated deficit or to issue new stocks or cash to shareholders in proportion to their share ownership, provided that the Company has no accumulated deficit. Further, the R.O.C. Securities and Exchange Act requires that the amount of capital surplus to be capitalised mentioned above should not exceed 10% of the paid-in capital each year. Capital surplus should not be used to cover accumulated deficit unless the legal reserve is insufficient.

				2019				
	Sha	are premium		nange in associates ecounted for under equity method	O	thers		Total
At January 1	\$	3,196,250	\$	40,208	\$	201	\$	3,236,659
Change in associates accounted		-,,	·	-,				-,,
for under equity method		-		8,064		_		8,064
Cash from capital surplus	(	508,095)		-		-	(	508,095)
Cash dividends returned				<u>-</u>		226		226
At December 31	\$	2,688,155	\$	48,272	\$	427	\$	2,736,854
				2018				
				nange in associates ecounted for under				
	Sha	are premium		equity method	O	thers		Total
At January 1	\$	3,540,653	\$	18,203	\$	_	\$	3,558,856
Change in associates accounted for under equity method		_		22,005		_		22,005
Cash from capital surplus	(	508,095)		,,,,,		_	(	508,095)
Employees' compensation	·						•	
transferred to common stock		163,692		-		-		163,692
Cash dividends returned						201		201
At December 31	\$	3,196,250	\$	40,208	\$	201	\$	3,236,659

### (19) Retained earnings

A. Under the Company's Articles of Incorporation, the current year's earnings, if any, shall first be used to pay all taxes and offset prior years' operating losses and then 10% of the remaining amount shall be set aside as legal reserve, if legal reserve has accumulated to an amount equal to the paid-in capital, then legal reserve is not required to be set aside any more. After that, special reserve shall be set aside or reversed in accordance with the related laws or the regulations made by the Competent Authority. The remainder, if any, along with prior year's accumulated undistributed earnings shall be proposed by the Board of Directors. However, the appropriation of earnings shall be resolved by the shareholders if earnings are distributed by issuing new shares, or the appropriation of earnings shall be resolved by the Board of Directors, if earnings are distributed in the form of cash. The Company should consider factors of finance, business and operations to appropriate distributable earnings for the period, and appropriate all or partial reserve in accordance with regulations and the Competent Authority. The Company's dividend policy takes into consideration the Company's future expansion plans and future cash flows. In accordance with the Company's dividend policy, cash dividends shall account for at least 10% of the total dividends distributed.

- In accordance with Company Act Article 240, Item 5 and Article 241, Item 2, the resolution, for all or partial of distributable dividends, legal reserve and capital surplus are distributed in the form of cash, will be adopted by a majority vote at a meeting of the Board of Directors attended by two-thirds of the total number of directors, and will be reported to the shareholders.
- B. Except for covering accumulated deficit or issuing new stocks or cash to shareholders in proportion to their share ownership, the legal reserve shall not be used for any other purpose. The use of legal reserve for the issuance of stocks or cash to shareholders in proportion to their share ownership is permitted, provided that the distribution of the reserve is limited to the portion in excess of 25% of the Company's paid-in capital.
- C. In accordance with the regulations, the Company shall set aside special reserve from the debit balance on other equity items at the balance sheet date before distributing earnings. When debit balance on other equity items is reversed subsequently, the reversed amount could be included in the distributable earnings.
- D. The appropriation of 2018 and 2017 earnings had been resolved at the stockholders' meeting on June 12, 2019 and June 5, 2018, respectively. Details are summarised below:

		2018				2017			
		Dividends					D	ividends	
		per share					pe	er share	
		Amount (in dolla		ollars)		Amount	(in dollars)		
Legal reserve	\$	435,077	\$	-	\$	339,215	\$	-	
(Reversal of) special reserve	(	600,443)		-		600,443		-	
Cash dividends		3,048,573		6.00		2,286,430		4.50	
Total	\$	2,883,207	\$	6.00	\$	3,226,088	\$	4.50	

- E. On June 12, 2019 and June 5, 2018, the stockholders resolved during their meeting to distribute \$508,095 by cash (\$1 per share) and \$508,095 by cash (\$1 per share) from capital surplus, respectively.
- F. For the information relating to employees' compensation and directors' remuneration, please refer to Note 6(25).

# (20) Other equity items

				20	19			
	_	Unrealised gains (losses) on valuation		Curr translation	ency differer	nce	To	otal
At January 1	\$	272	,153	\$	129,8	<del>311 \$                                  </del>		401,964
Revaluation:								
-Group		227	,352			-		227,352
-Associates		4	,390			-		4,390
Reclassified to retained								
earnings		41	,212			-		41,212
Currency translation differences:								
-Group			-	(	891,9	954) (		891,954
At December 31	\$	545	,107	(\$	762,1	43) (\$		217,036
				20	)18			
		Inrealised	Av	ailable-for-		irrency		
		ns (losses)		sale		slation		
	_	valuation	in	vestment	diff	ference		Total
At January 1	\$	-	\$	212,720	(\$	813,163)	(\$	600,443
Modified retrospective								
approach adjustment:								
Revaluation		538,977	(	212,720)		-		326,257
Revaluation transferred	(	103,142)		-		-	(	103,142
to retained earnings Revaluation:								
-Group	(	165,659)				_	(	165,659
-Associates	(	1,977		_		_	(	1,977
Currency translation		1,5 / /						1,2
differences:								
-Group		-		-		942,974		942,974
At December 31	\$	272,153	\$		\$	129,811	\$	401,964
Operating revenue								
				3.7		-10	l 2 1	1
				Y	ears end	ed Decem	ver 3	ι,

# A. Disaggregation of revenue from contracts with customers

Revenue from contracts with customers

The Group derives revenue from the transfer of goods and services at a point in time in the following major product lines:

2019

60,744,006

2018

45,805,746

\$

	Integrated		
Year ended December 31, 2019	circuit products	Others	Total
Revenue from external customer contracts	\$ 60,623,210	\$ 120,796	\$ 60,744,006
Timing of revenue recognition			
At a point in time	\$ 60,623,210	\$ 120,796	\$ 60,744,006
	Integrated		
Year ended December 31, 2018	circuit products	Others	Total
Year ended December 31, 2018 Revenue from external customer contracts	<u>circuit products</u> \$ 45,735,868	Others \$ 69,878	Total \$ 45,805,746
· · · · · · · · · · · · · · · · · · ·			

#### B. Contract liabilities

The Group has recognized the following revenue-related contract liabilities:

	December 31, 2019		December :	31, 2018	January 1, 2018		
Contract liabilities –							
advance sales receipts	\$	104,974	\$	148,696	\$	103,169	

Revenue recognized that was included in the contract liability balance at the beginning of the period:

	 Years ended December 31,				
	 2019	-	2018		
Contract liabilities – advance sales receipts	\$ 136,590	\$	91,285		

## C. Refund liabilities (shown in other current liabilities)

The Group estimates the discounts based on accumulated experience. The estimation is subject to an assessment at each reporting date.

December 31, 2<u>019</u>

5,368,247

December 31, 2018

3,705,665

The following refund liabilities:

Refund liabilities – current

(22) Other income				
		Years ended	Decem	ber 31,
	2019		2018	
Interest income:				
Interest income from bank deposits	\$	1,277,211	\$	989,290
Dividend income		30,150		32,942
Other income		105,418		112,739
	4	1 412 770	<b>©</b>	1 124 071

## (23) Other gains and losses

		Years ended	d Decer	nber 31,
		2019		2018
(Losses) gains on disposal of property, plant and				_
equipment	(\$	157	7) \$	133
Net currency exchange losses	(	125,351	l) (	35,720)
Gains (losses) on financial assets at fair value				
through profit or loss		5,764	1 (	19,240)
Impairment loss of intangible assets	(	148,086	5)	-
Impairment loss of investments accounted for				
under equity method	(	41,397		-
Other losses	(	14,458	3) (	3,709)
	( <u>\$</u>	323,685	<u>(\$</u>	58,536)
(24) <u>Finance costs</u>				
	Years ended December 31,			
		2019		2018
Interest expense				_
Bank borrowings	\$	136,339	\$	140,387
Lease liabilities		23,915		-
	\$	160,254	\$	140,387
(25) Expenses by nature		_		
		Years ended	Deceml	ber 31.
		2019 2018		
Employee benefit expenses	\$	13,777,223	\$	10,831,592
Depreciation	\$	700,806	\$	544,084
Amortisation	\$	1,019,785	\$	994,852
(26) Employee benefit expenses				
		Years ended	Deceml	ber 31,
		2019		2018
Wages and salaries	\$	12,900,156	\$	10,048,153
Labor and health insurance fees		440,945		394,056
Pension costs		262,707		234,934
Other personnel expenses		173,415		154,449
Total	\$	13,777,223	\$	10,831,592

A. In accordance with the Company's Articles of Incorporation, the Company shall appropriate no higher than 3% for directors' remuneration and no less than 1% for employees' compensation, if the Company generates profit. If the Company has accumulated deficit, earnings should be reserved to cover losses before the appropriation of directors' remuneration and employees' compensation. Aforementioned employees' compensation could be

distributed by cash or stocks. Specifics of the compensation are to be determined by a majority vote at a meeting of the Board of Directors attended by two-thirds of the total number of directors. The resolution should be reported to the shareholders during the shareholders' meeting.

B. For the years ended December 31, 2019 and 2018, employees' compensation was accrued at \$2,097,424 and \$1,151,674, respectively; directors' remuneration was accrued at \$119,828 and \$76,778, respectively. If the estimated amounts differ from the actual distribution resolved by the Board of Directors and the shareholders' meeting, the Company will recognize the change as an adjustment to income of next year.

Employees' cash compensation was \$1,151,674, and directors' remuneration was \$76,778 for 2018. Employees' compensation and directors' remuneration of 2018 as resolved at the meeting of the Board of Directors were in agreement with those amounts recognized in the 2018 financial statements.

Information about employees' compensation and directors' remuneration of the Company as resolved by the Board of Directors will be posted in the "Market Observation Post System" at the website of the Taiwan Stock Exchange.

### (27) Income tax

### A. Income tax expense

	Years ended December 31,					
		2019	2018			
Current income tax:						
Current income tax on profits for the year	\$	396,097 \$	463,769			
Tax on undistributed earnings		74,745	16,607			
Prior year income tax over estimation	(	19,067) (	35,671)			
Total current income tax		451,775	444,705			
Deferred income tax:						
Origination and reversal of temporary						
differences	(	6,278) (	12,360)			
Impact of change in tax rate		- (	125,925)			
Total deferred income tax	(	6,278) (	138,285)			
Income tax expense	\$	445,497 \$	306,420			

# B. Reconciliation between income tax expense and accounting profit

	Years ended December 31,				
		2019		2018	
Income tax calculated based on income before					
tax and statutory tax rate	\$	1,453,137	\$	946,174	
Expenses disallowed by tax regulation and					
effects from tax-exempt income	(	1,063,318)	(	494,765)	
Impact of change in tax rate		-	(	125,925)	
Prior year income tax over estimation	(	19,067)	(	35,671)	
Income tax on undistributed surplus earnings	-	74,745		16,607	
Income tax expense	\$	445,497	\$	306,420	

C. Amounts of deferred income tax assets or liabilities as a result of temporary differences are as follows:

	Year ended December 31, 2019						
		Recognised in profit					
		January 1		or loss		December 31	
Deferred income tax assets: -Temporary differences: Unrealised loss on market price decline and obsolete and slow-moving							
inventories and others Deferred income tax liabilities: -Temporary differences: Unrealised exchange	\$	78,472	\$	35,691	\$	114,163	
gain	(	22,310)	(	29,413)	(	51,723)	
	\$	56,162	\$	6,278	\$	62,440	

	Year ended December 31, 2018					
		January 1	Re	ecognised in profit or loss		December 31
Deferred income		January 1		01 1033		December 31
tax assets:						
-Temporary differences:						
Unrealised loss on market price decline and obsolete and slow-moving inventories and others	\$	65,551	\$	12,921	\$	78,472
Deferred income tax liabilities: -Temporary differences: Unrealised exchange	Ψ	03,331	Ψ	12,721	Ψ	70,172
gain	(	21,749)	(	561)	(	22,310)
	\$	43,802	\$	12,360	\$	56,162

D. The amounts of deductible temporary differences that are not recognized as deferred income tax assets are as follows:

	December 31, 2019			December 31, 2018	
Deductible temporary differences	\$	1,108,747	\$	783,339	

- E. The Company's income tax returns through 2017 have been assessed and approved by the Tax Authority.
- F. Under the amendments to the Income Tax Act which was promulgated by the President of the Republic of China in February 7, 2018, the Company's applicable income tax rate was raised from 17% to 20% effective from January 1, 2018. The Group has assessed the impact of the change in income tax rate.

# (28) Earnings per share

	Ye	ar ended December 31, 2019	)
	Amount after tax	Weighted average number of ordinary shares outstanding (shares in thousands)	Earnings per share (in dollars)
Basic earnings per share Profit attributable to ordinary shareholders of the parent Diluted earnings per share	\$ 6,790,283	508,095	\$ 13.36
Profit attributable to ordinary shareholders of the parent Assumed conversion of all dilutive potential ordinary shares	\$ 6,790,283	508,095	
Employees' compensation	-	8,926	
Profit attributable to ordinary shareholders of the parent plus assumed conversion of all dilutive potential	¢ 6700 292	517.021	¢ 12.12
ordinary shares	\$ 6,790,283	517,021	\$ 13.13
	Ye	ear ended December 31, 2018	3
		Weighted average number	<b>.</b>
	Amount often	of ordinary shares	Earnings
	Amount after	outstanding (shares in thousands)	per share
Basic earnings per share	tax	in thousands)	(in dollars)
Profit attributable to ordinary			
shareholders of the parent	\$ 4,350,768	507,712	\$ 8.57
Diluted earnings per share			
Profit attributable to ordinary shareholders of the parent Assumed conversion of all dilutive	\$ 4,350,768	507,712	
1 1 1			
potential ordinary shares Employees' compensation	_	10 477	
Employees' compensation		10,477	
Employees' compensation  Profit attributable to ordinary shareholders of the parent plus assumed		10,477	
Employees' compensation Profit attributable to ordinary	\$ 4,350,768		\$ 8.40

# (29) Supplemental cash flow information

Investing activities with partial cash payments

	Years ended December 31,					
		2019		2018		
Purchase of property, plant and equipment	\$	749,975	\$	707,114		
Add: Opening balance of payable on equipment		110,401		33,141		
Less: Ending balance of payable on equipment	(	113,350)	(	110,401)		
Cash paid during the year	\$	747,026	\$	629,854		
		Years ended	Decem	ber 31,		
		2019		2018		
Purchase of intangible assets Add: Opening balance of payable on	\$	1,444,186	\$	626,009		
software and intellectual property Less: Ending balance of payable on		684,438		650,649		
software and intellectual property	(	725,345)	(	684,438)		
Cash paid during the year	\$	1,403,279	\$	592,220		

# (30) Changes in liabilities from financing activities

	Short-term borrowings	Guarantee deposits received	Lease liabilites	Liabilities from financing activities-gross
At January 1, 2019	\$ 14,526,311	\$ 4,887	\$1,048,079	\$ 15,579,277
Changes in cash flow from financing				
activities	4,439,731	(1,437)	( 76,732)	4,361,562
Interest paid	-	-	( 23,915)	( 23,915)
Interest of lease liabilities	-	-	23,915	23,915
Changes in other non-cash items			141,328	141,328
At December 31, 2019	\$ 18,966,042	\$ 3,450	\$1,112,675	\$ 20,082,167
		G	luarantee	Liabilities from
	Short-term	m c	leposits	financing
	borrowing	gs r	eceived	activities-gross
At January 1, 2018	\$ 18,05	2,624 \$	5,165	18,057,789
Changes in cash flow from financing				
activities	(3,52	6,313) (	278) (	3,526,591)
At December 31, 2018	\$ 14,52	6,311 \$	4,887	3 14,531,198

## 7. RELATED PARTY TRANSACTIONS

## (1) Parent and ultimate controlling party

The ultimate controlling party of the Group is the Company.

## (2) Names of related parties and relationship

Names of related parties	Relationship with the Company
G.M.I Technology Inc.	Other related party
Actions Semiconductor Co., Ltd.	Other related party
C-Media Electronics Inc.	Other related party
Greatek Electronics Inc.	Other related party
EmBestor Technology Inc.	Other related party

## (3) Significant related party transactions and balances

## A. Operating revenue

	Years ended December 31,				
	2019			2018	
Sales of goods:					
G.M.I Technology Inc.	\$	11,392,557	\$	8,373,071	
Others		280,803		442,676	
	\$	11,673,360	\$	8,815,747	

Goods are sold based on the price lists in force and terms that would be available to third parties, and the general collection term was  $30 \sim 60$  days after monthly billings.

## B. Processing cost

	Years ended December 31,					
	2019			2018		
Greatek Electronics Inc.	\$	1,322,403	\$	1,087,478		

Processing cost is paid to associates on normal commercial terms and conditions, and the general payment term was 69 days after monthly billings.

## C. Receivables from related parties

	Dece	December 31, 2019		mber 31, 2018
Accounts receivable:				
G.M.I Technology Inc.	\$	2,142,256	\$	1,718,808
Other		54,461		53,263
	\$	2,196,717	\$	1,772,071

Aforementioned receivables were  $30 \sim 60$  days after monthly billings. The receivables from related parties arise mainly from sale transactions. The receivables are unsecured in nature and bear no interest.

## D. Payables to related parties

	Dece	December 31, 2019		December 31, 2018		
Accounts payable:						
Greatek Electronics Inc.	\$	329,514	\$	249,869		

The payment term above was 69 days after monthly billings. The payables to related parties arise mainly from processing cost. The payables bear no interest.

## E. Other transactions and other (receivables) payables:

	Years ended December 31,					
	20	)19	20	18		
		Ending		Ending		
	Amount	balance	Amount	<u>balance</u>		
Other related parties-						
Sales commissions	\$ 444,257	\$ 87,293	\$ 354,542	\$ 69,047		
Cash dividends revenue	(\$ 16,698)	\$ -	(\$ 19,420)	\$ -		
Technical royalty revenue	(\$ 4,430)	\$ -	(\$ 7,799)	\$ -		

The payment term above was 49 days after monthly billings; collection term was  $30 \sim 60$  days after monthly billings.

## (4) Key management compensation

		Years ended	Decen	nber 31,	
		2019	2018		
Salaries and other short-term employee benefits	\$	120,242	\$	105,676	
Post-employment benefits		2,697		2,557	
Total	\$	122,939	\$	108,233	

#### 8. PLEDGED ASSETS

The Group's assets pledged as collateral are as follows:

	Book	x value	
Pledged asset	December 31, 2019	December 31, 2018	Purposes
Time deposits (shown in			
financial assets at			Guarantee for customs
amortised cost			duties for the importation
-current)	\$ -	\$ 30,270	of materials
			Guarantee for leasing land
"	-	35,789	and office in Science Park
Time deposits (shown in financial assets at amortised cost - non-current)	34,307	-	Guarantee for customs duties for the importation of materials
"	25 170		Guarantee for leasing land
"	35,170	-	and office in Science Park
	\$ 69,477	\$ 66,059	

## 9. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED CONTRACT COMMITMENTS

## (1) Contingencies

None.

#### (2) Operating lease agreements

#### Applicable for 2018

The Group leases land and office buildings for operational needs under non-cancellable operating lease agreements. The lease terms are between 2019 and 2027. Most of the lease agreements are renewable at the market price at the end of the lease period. The Group recognized rental expense of \$85,701 for these leases in profit or loss for the year ended December 31, 2018.

The future aggregate minimum lease payments under non-cancellable operating leases are as follows:

	Decen	nber 31, 2018
No later than one year	\$	69,071
Later than one year but not later than five years		149,106
Later than five years		39,910
	\$	258,087

#### 10. SIGNIFICANT DISASTER LOSS

None.

## 11. <u>SIGNIFICANT EVENTS AFTER THE BALANCE SHEET DATE</u>

On February 21, 2020, the Board of Directors resolved at their meeting to enter into a property purchase contract, obtaining property in Zhongshan District, Taipei from Huaku Development Co., Ltd. with the transaction amount of 730 million NT dollars.

## 12. OTHERS

## (1) Capital management

The Group's objectives when managing capital are to safeguard the Group's ability to continue as a going concern in order to provide returns for shareholders and to maintain an optimal capital structure to reduce the cost of capital. In order to maintain or adjust the capital structure, the Company may adjust the amount of dividends paid to shareholders, return capital to shareholders, issue new shares or sell assets to reduce debt.

## (2) Financial instruments

## A. Financial instruments by category

	December 31, 2019		December 31, 2018	
Financial assets				
Financial assets at fair value				
through profit or loss				
Financial assets mandatorily				
measured at fair value through				
profit or loss	\$	74,012	\$	1,321,103
Financial assets at fair value through				
other comprehensive income				
Designation of equity instrument	\$	1,859,478	\$	1,651,072
Financial assets at amortised cost/				
Receivables				
Cash and cash equivalents	\$	5,727,911	\$	4,309,651
Financial assets at amortised cost		39,627,531		31,286,209
Accounts receivable (including				
related parties)		10,450,728		7,419,793
Other receivables (including		<b>5</b> 60 600		<b>655</b> 100
related parties)		768,699		657,190
Refundable deposits	<del>.</del>	32,384		28,573
	\$	56,607,253	\$	43,701,416
Financial liabilities				
Financial liabilities at amortised cost				
Short-term borrowings	\$	18,966,042	\$	14,526,311
Notes payable		3,276		8,657
Accounts payable (including related				
parties)		7,771,238		5,885,855
Other accounts payable (including				
related parties)		10,833,461		7,611,255
Guarantee deposits received		3,450		4,887
Other financial liabilities		5,368,247		3,705,665
	\$	42,945,714	\$	31,742,630
Lease liability	\$	1,112,675	\$	

### B. Financial risk management policies

- (a) The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk.
- (b) Risk management is carried out by a finance division (Group finance) under policies approved by the Board of Directors. Group finance identifies, evaluates and hedges financial risks in close cooperation with the Group's operating units.

## C. Significant financial risks and degrees of financial risks

## (a) Market risk

## Foreign exchange risk

- i. The Group operates internationally and is exposed to foreign exchange risk arising from various currency exposures, primarily with respect to the USD and CNY. Foreign exchange risk arises from future commercial transactions, recognized assets and liabilities and net investments in foreign operations.
- ii. Management has set up a policy to require the Group to manage its foreign exchange risk against its functional currency. The Group is required to hedge its entire foreign exchange risk exposure with the Group finance.
- iii. The Group's businesses involve some functional currency operations (the Company's functional currency: NTD; other certain subsidiaries' functional currency: USD and CNY). The information on assets and liabilities denominated in foreign currencies whose values would be materially affected by the exchange rate fluctuations is as follows:

	December 31, 2019						
	Foreign						
		currency					
	_	amount			Book value		
	(In	thousands)	Exchange rate		(NTD)		
(Foreign currency:							
functional currency)							
Financial assets							
Monetary items							
USD:NTD	\$	325,970	30.106	\$	9,813,647		
Non-monetary items							
USD:NTD		1,285,500	30.106		38,701,252		
Financial liabilities							
Monetary items							
USD:NTD		220,816	30.106		6,647,887		

		December 31, 2018						
		Foreign						
		currency						
		amount			Book value			
	(In	thousands)	Exchange rate	_	(NTD)			
(Foreign currency:								
functional currency)								
Financial assets								
Monetary items								
USD:NTD	\$	179,859	30.733	\$	5,527,618			
CNY:USD		71,029	0.1456		317,942			
Non-monetary items								
USD:NTD		1,159,786	30.733		35,643,714			
Financial liabilities								
Monetary items								
USD:NTD		134,264	30.733		4,126,322			

The exchange loss including realised and unrealised arising from significant foreign exchange variation on the monetary items held by the Group for the years ended December 31, 2019 and 2018, amounted to \$125,351 and \$35,720, respectively. Analysis of foreign currency market risk arising from significant foreign exchange variation:

	Year ended December 31, 2019						
	Sensitivity analysis						
	Degree of variation p		Effect on profit or loss		et on other orehensive ncome		
(Foreign currency:							
functional currency)							
Financial assets							
Monetary items							
USD:NTD	1%	\$	98,136	\$	-		
Non-monetary items							
USD:NTD	1%		-		387,103		
Financial liabilities							
Monetary items USD:NTD	1%	(	66,479)		-		

	Year ended December 31, 2018						
	Sensitivity analysis						
	Degree of variation p		Effect on profit or loss				t on other rehensive
(Foreign currency:							
functional currency)							
Financial assets							
Monetary items							
USD:NTD	1%	\$	55,276	\$	-		
CNY:USD	1%		3,179		-		
Non-monetary items							
USD:NTD	1%		-		356,437		
Financial liabilities							
Monetary items							
USD:NTD	1%	(	41,263)		-		

#### Price risk

- i. The Group's equity securities, which are exposed to price risk, are the held financial assets at fair value through profit or loss and financial assets at fair value through other comprehensive income.
- ii. The Group's investments in equity securities comprise domestic listed and unlisted stocks. The prices of equity securities would change due to the change of the future value of investee companies. If the prices of these equity securities had increased/decreased by 10% with all other variables held constant, post-tax profit for the years ended December 31, 2019 and 2018 would have increased/decreased by \$7,401 and \$132,110, respectively, as a result of gains/losses on equity securities classified as at fair value through profit or loss. Other components of equity would have increased/decreased by \$185,948 and \$165,107, respectively, as a result of gains/losses on equity securities classified as at fair value through other comprehensive income.

#### Cash flow and fair value interest rate risk

The Group has no material interest rate risk.

#### (b) Credit risk

i. Credit risk refers to the risk of financial loss to the Group arising from default by the clients or counterparties of financial instruments on the contract obligations. The main factor is that counterparties could not repay in full the accounts receivable based on the agreed terms, and the contract cash flows of financial assets at amortised cost and at fair value through other comprehensive income.

- ii. The Group manages their credit risk taking into consideration the entire group's concern. According to the Group's credit policy, each local entity in the Group is responsible for managing and analysing the credit risk for each of their new clients before standard payment and delivery terms and conditions are offered. Internal risk control assesses the credit quality of the customers, taking into account their financial position, past experience and other factors.
- iii. The Group adopts the assumption under IFRS 9, that is, the default occurs when the contract payments are past due over 90 days.
- iv. The Group adopts the following assumption under IFRS 9 to assess whether there has been a significant increase in credit risk on that instrument since initial recognition:

  If the contract payments were past due over 30 days based on the terms, there has been a significant increase in credit risk on that instrument since initial recognition.
- v. The following indicators are used to determine whether the credit impairment of debt instruments has occurred:
  - (i) It becomes probable that the issuer will enter bankruptcy or other financial reorganization due to their financial difficulties;
  - (ii) The disappearance of an active market for that financial asset because of financial difficulties;
  - (iii) Default or delinquency in interest or principal repayments;
  - (iv) Adverse changes in national or regional economic conditions that are expected to cause a default.
- vi. The Group classifies customers' accounts receivable, contract assets and rents receivable in accordance with customer types. The Group applies the modified approach using provision matrix to estimate expected credit loss under the provision matrix basis.
- vii. The Group wrote-off the financial assets, which cannot be reasonably expected to be recovered, after initiating recourse procedures. However, the Group will continue executing the recourse procedures to secure their rights.
- viii. The Group used the forecast ability of semiconductor industry research report to adjust historical and timely information to assess the default possibility of accounts receivable. On December 31, 2019 and 2018, the provision matrix are as follows:

	Not past due	1~90 days past due	90 days past due	Total
At December 31, 2019				
Expected loss rate	0%~1%	0%~1%	100%	
Total book value	\$ 10,153,312	\$ 376,367	\$ 656	\$ 10,530,335
Loss allowance	\$ 75,187	\$ 3,764	\$ 656	\$ 79,607

	N	lot past due		~90 days bast due	 90 days past due	 Total
At December 31, 2018						
Expected loss rate	0%~1%		0.2%~1%		100%	
Total book value	\$	7,460,264	\$	17,665	\$ 36	\$ 7,477,965
Loss allowance	\$	58,031	\$	105	\$ 36	\$ 58,172

ix. Movements in relation to the Group applying the modified approach to provide loss allowance for accounts receivable are as follows:

	2019			
	Loss allowance for accounts receivable			
At January 1	\$	58,172		
Provision for impairment		21,332		
Effect of exchange rate		103		
At December 31	<u>\$</u>	79,607		
		2018		
	Loss al	lowance for		
	accoun	ts receivable		
At January 1	\$	59,792		
Reversal of impairment loss	(	1,721)		
Effect of exchange rate		101		
At December 31	\$	58,172		

x. For financial assets at amortised cost, the credit rating levels are presented below:

	Decembe	er 31, 2019	
	Lifet	time	
	Significant increase in	Impairment of	
12 months	credit risk	credit	Total
\$ 39,627,531	\$ -	<u>\$</u>	\$ 39,627,531
	Decembe	er 31, 2018	
	Life	time	
	Significant		
	increase in	Impairment of	
12 months	credit risk	credit	Total
\$ 31,286,209	\$ -	\$ -	\$ 31,286,209
	\$ 39,627,531 12 months	Lifet Significant increase in credit risk  \$ 39,627,531 \$ -  December  Lifet Significant increase in credit risk	increase in credit risk Impairment of credit  \$ 39,627,531 \$ - \$ -  December 31, 2018  Lifetime  Significant increase in credit  12 months credit risk credit

The Group's financial assets at amortised cost are all time deposits with an original due date of more than three months, and there is no significant abnormality in credit risk assessment.

## (c) Liquidity risk

- i. Cash flow forecasting is performed in the operating entities of the Group and aggregated by Group finance. Group finance monitors forecasts of the Group's liquidity requirements to ensure it has sufficient cash to meet operational needs while maintaining sufficient headroom on its undrawn committed borrowing facilities.
- ii. Group finance invests surplus cash in interest bearing current accounts, time deposits, money market deposits and marketable securities, choosing instruments with appropriate maturities or sufficient liquidity to provide sufficient head-room as determined by the above-mentioned forecasts.
- iii. The table below analyses the Group's non-derivative financial liabilities into relevant maturity groupings based on the remaining period at the balance sheet date to the contractual maturity date for non-derivative financial liabilities. The amounts disclosed in the table are the contractual undiscounted cash flows.

Less than 1

Between 1

## Non-derivative financial liabilities:

D 1 21 2010	Less than I	Between I	
December 31, 2019	year	and 5 years	Over 5 years
Short-term borrowings	\$ 18,966,042	\$ -	\$ -
Notes payable	3,276	-	-
Accounts payable (including related			
parties)	7,771,238	-	-
Other payables (including related parties)	10,833,461	-	-
Lease liability	107,586	354,895	982,688
Guarantee deposits received	-	-	3,450
Other financial liabilities	5,368,247	-	-
Non-derivative financial liabilities:			
December 21, 2019	Less than 1	Between 1	
December 31, 2018	year	and 5 years	Over 5 years
Short-term borrowings	\$ 14,526,311	\$ -	\$ -
Notes payable	8,657	-	-
A accounts poveble (including related			
Accounts payable (including related			
parties)	5,885,855	-	-
	5,885,855 7,611,255	-	-
parties)		- - -	- - 4,887

iv. The Group does not expect the timing of occurrence of the cash flows estimated through the maturity date analysis will be significantly earlier, nor expect the actual cash flow amount will be significantly different.

## (3) Fair value information

- A. The different levels that the inputs to valuation techniques are used to measure fair value of financial and non-financial instruments have been defined as follows:
  - Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date. A market is regarded as active where a market in which transactions for the asset or liability take place with sufficient frequency and volume to provide pricing information on an ongoing basis. The fair value of the Group's investment in listed stocks and beneficiary certificates is included in Level 1.
  - Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. The fair value of the Group's investment is included in Level 2.
  - Level 3: Unobservable inputs for the asset or liability. The fair value of the Group's investment in equity investment without active market is included in Level 3.
- B. Fair value information of investment property at cost is provided in Note 6(10).
- C. The related information of financial and non-financial instruments measured at fair value by level on the basis of the nature, characteristics and risks of the assets is as follows:
  - (a) The related information of nature of the assets is as follows:

December 31, 2019	 Level 1		Level 2	]	Level 3		Total
Assets							
Recurring fair value measurement							
Financial assets at fair value							
through profit or loss							
Equity securities	\$ 74,012	\$	-	\$	-	\$	74,012
Financial assets at fair value							
through other comprehensive							
income							
Equity securities	 505,615	_			1,353,863		1,859,478
Total	\$ 579,627	\$		\$	1,353,863	\$	1,933,490
December 31, 2018	Laval 1		Level 2	1	Level 3		Total
December 31, 2016	Leveri		Level 2				1 Otai
	 Level 1		Level 2		Level 3		Total
Assets	 Level I		Level 2		Level 3		Total
	 Level I		Level 2		Level 3		Total
Assets Recurring fair value measurement	 Level I		Level 2		Level 3		Total
Assets Recurring fair value measurement Financial assets at fair value	1,321,103	\$	Level 2	\$	Level 3	\$	1,321,103
Assets Recurring fair value measurement Financial assets at fair value through profit or loss		\$	Level 2		-	\$ 1	
Assets Recurring fair value measurement Financial assets at fair value through profit or loss Equity securities		\$	Level 2		-	\$	
Assets Recurring fair value measurement Financial assets at fair value through profit or loss Equity securities Financial assets at fair value		\$	Level 2		-	\$ 1	
Assets Recurring fair value measurement Financial assets at fair value through profit or loss Equity securities Financial assets at fair value through other comprehensive		\$	- -	\$	1,058,137		

- (b) The methods and assumptions the Group used to measure fair value are as follows:
  - i. The instruments the Group used market quoted prices as their fair values (that is, Level 1) are listed below by characteristics:

		Closed-	Open-			Convertible
	Listed	end	end	Government	Corporate	(exchangeable)
	shares	fund	fund	bond	bond	bond
Market quoted	Closing	Closing	Net	Translation	Weighted	Closing price
price	price	price	asset	price	average	
			value		quoted	
					price	

- ii. Except for financial instruments with active markets, the fair value of other financial instruments is measured by using valuation techniques or by reference to counterparty quotes. The fair value of financial instruments measured by using valuation techniques can be referred to current fair value of instruments with similar terms and characteristics in substance, discounted cash flow method or other valuation methods, including calculated by applying model using market information available at the consolidated balance sheet date.
- iii. The output of valuation model is an estimated value and the valuation technique may not be able to capture all relevant factors of the Group's financial and non-financial instruments. Therefore, the estimated value derived using valuation model is adjusted accordingly with additional inputs.
- D. For the years ended December 31, 2019 and 2018, there was no transfer between Level 1 and Level 2.
- E. The following chart is the movement of Level 3 for the years ended December 31, 2019 and 2018:

		2019
	Non-derivat	ive equity instrument
At January 1	\$	1,058,137
Gains recognised in other comprehensive income		295,726
At December 31	\$	1,353,863
		2018
	Non-derivat	ive equity instrument
At January 1	\$	312,684
Modified retrospective adjustment		766,919
Gains recognised in other comprehensive income	(	49,466)
Acquired in the period		28,000
At December 31	\$	1,058,137

- F. For the years ended December 31, 2019 and 2018, there was no transfer into or out from Level 3.
- G. The finance division is in charge of valuation procedures for fair value measurements being categorised within Level 3, which is to verify independent fair value of financial instruments. Such assessment is to ensure the valuation results are reasonable by applying independent information to make results close to current market conditions, confirming the resource of information is independent, reliable and in line with other resources and represented as the exercisable price, updating inputs used to the valuation model and making any other necessary adjustments to the fair value.
- H. The following is the qualitative information of significant unobservable inputs and sensitivity analysis of changes in significant unobservable inputs to valuation model used in Level 3 fair value measurement:

	Fair value at		Significant	Range	
	December 31,	Valuation	unobservable	(weighted	Relationship of
	2019	technique	input	average)	inputs to fair value
Non-derivative equity instrument:					
Unlisted shares	\$ 115,580	Market comparable companies	Price to book ratio multiple	3.58	The higher the multiple, the higher the fair value
//	19,791	Net asset value	Not applicable	-	Not applicable
Private equity fund investment	1,218,492	Net asset value	Not applicable	-	Not applicable

	F	air value at		Significant	Range	
	De	ecember 31,	Valuation	unobservable	(weighted	Relationship of
		2018	technique	input	average)	inputs to fair value
Non-derivative equity instrument:						
Unlisted shares	\$	117,986	Market comparable companies	Price to book ratio multiple	2.56	The higher the multiple, the higher the fair value
"		28,000	The last transaction price of the non-active market	Not applicable	-	Not applicable
Private equity fund investment		912,151	Net asset value	Not applicable	-	Not applicable

I. The Group has carefully assessed the valuation models and assumptions used to measure fair value; therefore, the fair value measurement is reasonable. However, use of different valuation models or assumptions may result in different measurement. The following is the effect of profit or loss or of other comprehensive income from financial assets and liabilities categorised within Level 3 if the inputs used to valuation models have changed:

				December	31, 2019	
					Recognis	ed in other
			Recognised	in profit or loss	comprehen	sive income
			Favourable	Unfavourable	Favourable	Unfavourable
	Input	Change	Change	change	Change	change
Financial assets						
	Price to					
Equity instrument	book ratio multiple	± 1%	\$ -	<u> </u>	\$ 1,581	(\$ 1,581)
				December 3	31, 2018	
					Recognised	l in other
		F	Recognised in	profit or loss	comprehensi	ve income
			Favourable	Unfavourable I	Favourable U	Infavourable
	Input	Change	Change	change	Change	change
Financial assets						
	Price to					
Equity instrument	book ratio multiple	± 1%	\$ -	\$ - \$	5 1,232 (	\$ 1,232)

### 13. SUPPLEMENTARY DISCLOSURES

### (1) Significant transactions information

- A. Loans to others: Please refer to table 1.
- B. Provision of endorsements and guarantees to others: Please refer to table 2.
- C. Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures): Please refer to table 3.
- D. Acquisition or sale of the same security with the accumulated cost exceeding \$300 million or 20% of the Company's paid-in capital: Please refer to table 4.
- E. Acquisition of real estate reaching \$300 million or 20% of paid-in capital or more: None.
- F. Disposal of real estate reaching \$300 million or 20% of paid-in capital or more: None.
- G. Purchases or sales of goods from or to related parties reaching \$100 million or 20% of paid-in capital or more: Please refer to table 5.
- H. Receivables from related parties reaching \$100 million or 20% of paid-in capital or more: Please refer to table 6.
- I. Trading in derivative instruments undertaken during the reporting periods: None.
- J. Significant inter-company transactions during the reporting periods: Please refer to table 7.

#### (2) Information on investees

Names, locations and other information of investee companies (not including investees in Mainland China): Please refer to table 8.

#### (3) Information on investments in Mainland China

- A. Basic information: Please refer to table 9.
- B. Significant transactions, either directly or indirectly through a third area, with investee companies in the Mainland Area: Please refer to table 1, table 2 and table 7.

## 14. SEGMENT INFORMATION

### (1) General information

The Group operates business only in a single industry. The Chief Operating Decision-Maker, who allocates resources and assesses performance of the Group as a whole, has identified that the Group has only one reportable operating segment.

## (2) Measurement of segment information

The Chief Operating Decision-Maker assesses the performance of the operating segments based on the consolidated financial statements. The accounting policy of operating segments is the same as that described in Note 4.

## (3) Information on segment profit (loss), assets and liabilities

Information on segment profit (loss), assets and liabilities referring to the revenue from external customers and segmental financial information reported to the chief operating decision-maker is measured in a manner consistent with that in the consolidated statement of comprehensive income and financial information.

## (4) Reconciliation for segment profit (loss)

Reconciliation for segment income (loss) referring to the segment assets, liabilities and profit before income tax reported to the chief operating decision-maker is measured in a manner consistent with balance sheets and the consolidated statement of comprehensive income. Thus, reconciliation is not needed.

## (5) Revenue information by category

Revenue from external customers is derived from the sale of integrated circuits. Other income is derived from design, royalty and technical services. Breakdown of the revenue from all sources are as follows:

	Years ended December 31,				
	2019			2018	
Revenue from ICs	\$	60,623,210	\$	45,735,868	
Others		120,796		69,878	
Total	<u>\$</u>	60,744,006	\$	45,805,746	

## (6) Revenue information by geographic area

Geographical information for the years ended December 31, 2019 and 2018 is as follows:

		Year ended De	cembe	er 31, 2019	Year ended December 31, 2018						
	<u></u>	Revenue	Non-current assets			Revenue	Non-current assets				
Taiwan	\$	40,845,708	\$	5,804,262	\$	32,194,291	\$	4,027,191			
Asia		19,898,298		921,103		13,611,455		1,021,286			
Others				155,400				30,814			
Total	\$	60,744,006	\$	6,880,765	\$	45,805,746	\$	5,079,291			

Note: Non-current assets exclude financial instruments and deferred income tax assets.

## (7) Major customer information

Major customer information of the Group for the years ended December 31, 2019 and 2018 is as follows:

	Year ended December 31, 2019								
		Revenue	Percentage	Segment					
Customer B	\$	13,368,262	22%	The whole group					
Customer D		11,392,557	19%	//					
Customer A		10,014,670	16%	//					
	Year ended December 31, 2018								
		Revenue	Percentage	Segment					
Customer A	\$	10,575,725	23%	The whole group					
Customer B		10,505,983	23%	//					
Customer D		8,373,071	18%	<i>"</i>					

#### REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES

#### Loans to others

#### For the year ended December 31, 2019

Table 1

Expressed in thousands of NTD (Except as otherwise indicated)

Maximum outstanding balance

				outstanding balance during the year								Col	lateral				
					ended December 31,	Balance at	Actual amount			Amount of transactions	Reason for	Allowance			Limit on loans	Ceiling on total loans	
No			General ledger	Is a related	2019	December	drawn down		Nature of	with the	short-term	for doubtful			granted to	granted	
(Note 1)	Creditor	Borrower	account	party	(Note 3)	31, 2019	(Note 4)	Interest rate	loan	borrower	financing	accounts	Item	Value	a single party	(Note 2)	Footnote
0	Realtek Semiconductor Corporation	Realtek Singapore Private Limited	Other receivables- related parties	Y	\$ 903,180	\$ 903,180	\$ -	-	Short-term financing	\$ -	Operations	\$ -	None	\$ -	\$ 2,721,899	\$ 10,887,594	None
0	Realtek Semiconductor Corporation	Amber Universal Inc.	Other receivables- related parties	Y	602,120	602,120	602,120	1.8	Short-term financing	-	Operations	-	None	-	2,721,899	10,887,594	None
0	Realtek Semiconductor Corporation	Bluocean Inc.	Other receivables- related parties	Y	1,806,360	1,806,360	1,490,247	1.8	Short-term financing	-	Operations	-	None	-	2,721,899	10,887,594	None
0	Realtek Semiconductor Corporation	Talent Eagle Enterprise Inc.	Other receivables- related parties	Y	1,806,360	1,806,360	1,737,116	1.8	Short-term financing	-	Operations	-	None	-	2,721,899	10,887,594	None
0	Realtek Semiconductor Corporation	Leading Enterprises Limited	Other receivables- related parties	Y	1,806,360	1,806,360	1,806,360	1.8	Short-term financing	-	Operations	-	None	-	2,721,899	10,887,594	None
1	Leading Enterprises Limited	Bluocean Inc.	Other receivables- related parties	Y	1,806,360	1,806,360	-	-	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None
1	Leading Enterprises Limited	Talent Eagle Enterprise Inc.	Other receivables- related parties	Y	6,021,200	6,021,200	5,127,161	1.8	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None
2	Amber Universal Inc.	Bluocean Inc.	Other receivables- related parties	Y	1,505,300	1,505,300	1,505,300	1.8	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None
3	Cortina Access, Inc.	Leading Enterprises Limited	Other receivables- related parties	Y	903,180	903,180	-	-	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None

#### REALTEK SEMICONDUCTOR CORPORATION AND SUBSIDIARIES

#### Loans to others

#### For the year ended December 31, 2019

Table 1 Expressed in thousands of NTD

(Except as otherwise indicated)

Maximum

					outstanding balance during the year					Amount of			Coll	ateral			
					ended December 31,	Balance at	Actual amount			transactions	Reason for	Allowance			Limit on loans	Ceiling on total loans	
No			General ledger	Is a related	2019	December	drawn down		Nature of	with the	short-term	for doubtful			granted to	granted	
(Note 1)	Creditor	Borrower	account	party	(Note 3)	31, 2019	(Note 4)	Interest rate	loan	borrower	financing	accounts	Item	Value	a single party	(Note 2)	Footnote
4	Realtek Investment Singapore Private Limited	Realtek Singapore Private Limited	Other receivables- related parties	Y	3,010,600	3,010,600	1,255,420	1.8	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None

#### Loans to others

### For the year ended December 31, 2019

Table 1 Expressed in thousands of NTD

(Except as otherwise indicated)

Maxim	um
outstanding	balar

					outstanding barance												
					during the year					Amount of			Coll	lateral	-		
					ended December 31,	Balance at	Actual amount			transactions	Reason for	Allowance			Limit on loans	Ceiling on total loans	
No			General ledger	Is a related	2019	December	drawn down		Nature of	with the	short-term	for doubtful			granted to	granted	
(Note 1)	Creditor	Borrower	account	party	(Note 3)	31, 2019	(Note 4)	Interest rate	loan	borrower	financing	accounts	Item	Value	a single party	(Note 2)	Footnote
5	Realtek Singapore Private Limited	Realsil Microelectronics Corp.	Other receivables- related parties	Y	\$ 903,180	\$ 903,180	\$ -	-	Short-term financing	\$ -	Operations	\$ -	None	\$ -	\$ 10,887,594	\$ 10,887,594	None
6	Realsil Microelectronics Corp.	RayMX Microelectronics Corp.	Other receivables- related parties	Y	345,736	345,736	-	-	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None
6	Realsil Microelectronics Corp.	Suzhou Hongwei Microelectronic Corp.	Other receivables- related parties	Y	345,736	345,736	-	-	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None
7	Cortina Network systems Shanghai Co., Ltd.	Realsil Microelectronics Corp.	Other receivables- related parties	Y	129,651	129,651	43,217	4.35	Short-term financing	-	Operations	-	None	-	10,887,594	10,887,594	None

Note 1: The numbers filled in for the loans provided by the Company or subsidiaries are as follows:

- (1) The Company is '0'.
- (2) The subsidiaries are numbered in order starting from '1'.

Note 2: The Company's "Procedures for Provision of Loans" are as follows:

- (1) Ceiling on total loans granted by the Company to all parties is 40% of the Company's net assets value as per its most recent financial statements.
- (2) Limit on loans to a single party with business transactions is the business transactions occurred between the creditor and borrower in the current year. The business transaction amount is the higher of purchasing and selling during current year on the year of financing.
- (3) For companies needing for short-term financing, the cumulative lending amount may not exceed 40% of the borrowing company's net assets based on its latest financial statements audited or reviewed by independent accountants.

The amount the Company or its subsidiaries lend to an individual entity may not exceed 10% of the Company's or subsidiary's net assets based on its latest financial statements audited or reviewed by independent accountants.

For the foreign companies which the Company holds 100% of the voting rights directly or indirectly, limit on loans is not restricted as stipulated in the above item (3). However, the ceiling on total loans and limit on loans to a single party may not exceed 40% of the Company's net assets based on its latest financial statements audited or reviewed by independent accountants.

Note 3: Accumulated maximum outstanding balance of loans to others as of the reporting month of the current period.

Note 4: Fill in the actual amount of loans to others used by the borrowing company.

#### Provision of endorsements and guarantees to others

For the year ended December 31, 2019

Table 2 Expressed in thousands of NTD

(Except as otherwise indicated)

Number (Note 1)	Endorser/ guarantor	endorsed/gua	Relationship with the endorser/ guarantor (Note 2)	Limited on endorsements/ guarantees provided for a single party (Note 3)	Maximum outstanding endorsement/ amount as of December 31, 2019 (Note 4)	Outstanding endorsement/ guarantee amount at December 31, 2019 (Note 5)	Actual amont drawn down (Note 6)	Amount of endorsements/ gurantees secured with collateral	Ratio of accumulated endorsement/ guarantee amount to net asset value of the endorser/ guarantor company	Ceiling on total amount of endorsements/ guarantees provided (Note 3)		Provision of endorsements/ guarantees by subsidiary to parent company (Note 7)		Footnote
0	Realtek Semiconductor Corporation	Realtek Singapore Private Limited	2	\$ 13,609,493	\$ 2,721,899	\$ 2,721,899	\$ -	\$ -	10%	\$ 13,609,493	Y	N	N	
0	Realtek Semiconductor Corporation	Leading Enterprises Limited	2	13,609,493	5,443,797	5,443,797	361,272	-	20%	13,609,493	Y	N	N	
0	Realtek Semiconductor Corporation	Realsil Microelectronics Corp.	2	13,609,493	816,570	816,570	-	-	3%	13,609,493	Y	N	Y	
0	Realtek Semiconductor Corporation	RayMX Microelectronics Corp.	2	13,609,493	816,570	816,570	7,092	-	3%	13,609,493	Y	N	Y	
1	Leading Enterprises Limited	Realsil Microelectronics Corp.	2	13,609,493	602,120	602,120	-	-	2%	13,609,493	N	N	Y	
2	Realsil Microelectronics Corp.	RayMX Microelectronics Corp.	2	13,609,493	602,120	602,120	-	-	2%	13,609,493	N	N	Y	

Note 1: The numbers filled in for the endorsements/guarantees provided by the Company or subsidiaries are as follows:

Party being

- (1) The Company is '0'.
- (2) The subsidiaries are numbered in order starting from '1'.

Note 2: Relationship between the endorser/guarantor and the party being endorsed/guaranteed is classified into the following six categories:

- (1) Having business relationship.
- (2) The endorser/guarantor parent company owns directly and indirectly more than 50% voting shares of the endorsed/guaranteed subsidiary.
- (3) The endorsed/guaranteed company owns directly and indirectly more than 50% voting shares of the endorser/guarantor parent company.
- (4) The endorser/guarantor parent company owns directly and indirectly more than 90% voting shares of the endorsed/guaranteed company.
- (5) Mutual guarantee of the trade as required by the construction contract.
- (6) Due to joint venture, each shareholder provides endorsements/guarantees to the endorsed/guaranteed company in proportion to its ownership.
- (7) Joint guarantee of the performance guarantee for pre-sold home sales contract as required under the Consumer Protection Act.
- Note 3: Ceiling on total endorsements/guarantees granted by the Company and subsidiaries is 50% of the Company's net asset based on the latest financial statements audited or reviewed by independent accountants, and limit on endorsements/guarantees to a single party is 50% of the Company's net asset based on the latest financial statements audited or reviewed by independent accountants.
- Note 4: Fill in the year-to-date maximum outstanding balance of endorsements/guarantees provided as of the reporting period.
- Note 5: Fill in the amount approved by the Board of Directors or the chairman if the chairman has been authorised by the Board of Directors based on subparagraph 8, Article 12 of the Regulations Governing Loaning of Funds and Making of Endorsements/Guarantees by Public Companies.
- Note 6: Fill in the actual amount of endorsements/guarantees used by the endorsed/guaranteed company.
- Note 7: Fill in 'Y' for those cases of provision of endorsements/guarantees by listed parent company to subsidiary and provision by subsidiary to listed parent company, and provision to the party in Mainland China.

Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures)

December 31, 2019

Table 3

					As of December	r 31, 2019		
	Marketable securities	Relationship with the	General		Book value			Footnote
Securities held by	( Note 1 )	securities issuer(Note 2)	ledger account	Number of shares	(Note 3)	Ownership (%)	Fair value	(Note 4)
Realtek Semiconductor Corporation	C-media Electronics Inc Common stock	Other related parties	Financial assets at fair value through profit or loss	1,623,501	\$ 28,736	2.05%	\$ 28,736	
Realking Investment Limited	Compal broadband networks Inc Common stock	None	Financial assets at fair value through other comprehensive income	3,575,000	104,033	5.34%	104,033	
Realsun Investment Co., Ltd.	Shieh-Yong Investment Co., Ltd Common stock	None	Financial assets at fair value through other comprehensive income	23,124,000	216,401	3.03%	216,401	
Realsun Investment Co., Ltd.	Compal broadband networks Inc Common stock	None	Financial assets at fair value through other comprehensive income	3,575,000	104,033	5.34%	104,033	
Leading Enterprises Limited	Fortemedia Inc Common stock	None	Financial assets at fair value through other comprehensive income	8,623,301	97,516	6.89%	97,516	
Leading Enterprises Limited	Starix Technology, Inc Preferred stock	None	Financial assets at fair value through other comprehensive income	5,000,000	18,064	-	18,064	
Leading Enterprises Limited	Octtasia Investment Holding Inc Common stock	None	Financial assets at fair value through other comprehensive income	9,000,000	657,021	12.49%	657,021	
Amber Universal Inc.	Octtasia Investment Holding Inc Common stock	None	Financial assets at fair value through other comprehensive income	4,726,836	345,070	6.56%	345,070	
Hung-wei Venture Capital Co., Ltd.	United Microelectronics Corporation - Common stock	None	Financial assets at fair value through other comprehensive income	336,346	5,533	-	5,533	
Hung-wei Venture Capital Co., Ltd.	C-media Electronics Inc Common stock	Other related parties	Financial assets at fair value through profit or loss	2,274,875	40,265	2.88%	40,265	
Hung-wei Venture Capital Co., Ltd.	Greatek Electroninc Inc Common stock	Other related parties	Financial assets at fair value through other comprehensive income	5,823,602	278,659	1.05%	278,659	
Hung-wei Venture Capital Co., Ltd.	Subtron technology Co., Ltd - Common stock	None	Financial assets at fair value through other comprehensive income	1,093,968	13,357	0.33%	13,357	
Hung-wei Venture Capital Co., Ltd.	Embestor Technology Inc Common stock	Other related parties	Financial assets at fair value through other comprehensive income	2,800,000	19,791	12.17%	19,791	
Cortina Network Systems Shanghai Co., Ltd.	Tian Tianjin Aggressive Fund	None	Financial assets at fair value through profit or loss	934,291	5,007	-	5,007	

Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures)

December 31, 2019

December 31, 2019
Table 3

					As of December	er 31, 2019		
	Marketable securities	Relationship with the	General		Book value			Footnote
Securities held by	( Note 1 )	securities issuer(Note 2)	ledger account	Number of shares	(Note 3)	Ownership (%)	Fair value	(Note 4)
Bluocean Inc.	CyWeeMotion Group Limited	None	Financial assets at fair value through other comprehensive income	4,800,000	\$ -	6.59%	\$	-
RayMX Microelectronics Corp.	Tian Li Bao Money Fund	None	Financial assets at fair value through profit or loss	712	4	-		4

- Note 1: Marketable securities in the table refer to stocks, bonds, beneficiary certificates and other related derivative securities within the scope of IFRS 9 'Financial instrument'.
- Note 2: Leave the column blank if the issuer of marketable securities is non-related party.
- Note 3: Fill in the amount after adjusted at fair value and deducted by accumulated impairment for the marketable securities measured at fair value; fill in the acquisition cost or amortised cost deducted by accumulated impairment for the marketable securities not measured at fair value.
- Note 4: The number of shares of securities and their amounts pledged as security or pledged for loans and their restrictions on use under some agreements should be stated in the footnote if the securities presented herein have such conditions.

Acquisition or sale of the same security with the accumulated cost exceeding \$300 million or 20% of the Company's paid-in capital

For the year ended December 31, 2019

						Balanc	ce as at								
			General		Relationship	January	, 1, 2019	Add	itions		Disj	osals		Balance as a	t December 31, 2019
		Marketable	ledger		with	Number of		Number of		Number of			Gain (loss) on	Number of	
	Investor	securities	account	Counterparty	the investor	shares	Amount	shares	Amount	shares	Selling price	Book value	disposal	shares	Amount
Ī	Talent Eagle	Ubilinx	Equity	Ubilinx	Investee	26,000,000	\$ 799,058	14,000,000	\$ 405,182	-	\$ -	\$ -	\$ -	40,000,000	\$ 1,204,240
	Enterprise Inc.	Technology Inc.	investments	Technology Inc.	company										
			under equity		accounted for										
			method		under equity										
					method										

Purchases or sales of goods from or to related parties reaching NT\$100 million or 20% of paid-in capital or more

For the year ended December 31, 2019

Expressed in thousands of NTD Table 5

(Except as otherwise indicated)

# Differences in transaction terms compared to third party

								compared	to third party			
					Trans	action		trans	actions	Notes/accounts re	ceivable(payable)	_
											Percentage of total	
						Percentage of total					notes/accounts	
		Relationship with the	Purchase			purchase					receivable	
Purchase/seller	Counterparty	counterparty	(sales)		Amount	(sales)	Credit term	Unit price	Credit term	Balance	(payable)	Footnote
Realtek Semiconductor Corporation	G.M.I Technology Inc.	Other related parties	(Sales)	(\$	5,996,976)	(10%)	Approximately the same with third party transactions	Approximately the same with third party transactions	Approximately the same with third party transactions	\$ 1,172,793	11%	
Realtek Singapore Private Limited	G.M.I Technology Inc.	Other related parties	(Sales)	(	5,226,296)	(9%)	Approximately the same with third party transactions	Approximately the same with third party transactions	Approximately the same with third party transactions	929,236	9%	
RayMX Microelectronics Corp.	G.M.I Technology Inc.	Other related parties	(Sales)	(	169,283)	(0%)	Approximately the same with third party transactions	Approximately the same with third party transactions	Approximately the same with third party transactions	40,227	0%	
Realtek Semiconductor Corporation	Greatek Electronics Inc.	Other related parties	Purchase		1,024,163	3%	Approximately the same with third party transactions	Approximately the same with third party transactions	Approximately the same with third party transactions	( 313,185)	(4%)	
Realtek Singapore Private Limited	Greatek Electronics Inc.	Other related parties	Purchase		298,240	1%	Approximately the same with third party transactions	Approximately the same with third party transactions	Approximately the same with third party transactions	( 16,329)	(0%)	

# Receivables from related parties reaching NT\$100 million or 20% of paid-in capital or more

December 31, 2019

(Except as otherwise indicated)

Table 6 Expressed in thousands of NTD

					Overdu	e receivables	Amount collected	
		Relationship with	Balance as at				subsequent to the	Allowance for
Creditor	Counterparty	the counterparty	December 31, 2019	Turnover rate	Amount	Action taken	balance sheet date	doubtful accounts
Realtek Semiconductor Corporation	G.M.I Technology Inc.	Other related parties	\$ 1,172,793	5.57	\$ -	-	\$ 569,399	\$ 11,847
Realtek Singapore Private Limited	G.M.I Technology Inc.	Other related parties	929,236	6.27	-	-	368,596	-

## Significant inter-company transactions during the reporting period For the year ended December 31, 2019

Table 7

					7	Transaction	
Number (Note 1)	Company name	Counterparty	Relationship (Note 2)	General ledger account	Amount	Transaction terms	Percentage of consolidated total operating revenues or total assets (Note 3)
0	Realtek Semiconductor Corporation	RayMX Microelectronics Corp.	1	Other receivables	\$ 48,980	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.07%
0	Realtek Semiconductor Corporation	RayMX Microelectronics Corp.	1	Sales revenue	65,119	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.11%
1	Leading Enterprises Limited	Realtek Semiconductor (Japan) Corp.	3	Technical service fees	34,049	No similar transaction can be compared with.  Transaction prices and terms are determined in accordance with mutual agreement.	0.06%
2	Realtek Singapore Private Limited	Realsil Microelectronics Corp.	3	Technical service fees	1,639,884	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	2.70%
2	Realtek Singapore Private Limited	Realsil Microelectronics Corp.	3	Other payables	552,750	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.75%
2	Realtek Singapore Private Limited	Realtek Semiconductor (Shen Zhen) Corp.	3	Technical service fees	347,426	No similar transaction can be compared with.  Transaction prices and terms are determined in accordance with mutual agreement.	0.57%
2	Realtek Singapore Private Limited	Realtek Semiconductor (Shen Zhen) Corp.	3	Other payables	116,209	No similar transaction can be compared with.  Transaction prices and terms are determined in accordance with mutual agreement.	0.16%

Significant inter-company transactions during the reporting period For the year ended December 31, 2019

Table 7

Expressed in thousands of NTD (Except as otherwise indicated)

Transaction

Number (Note 1)	Company name	Counterparty	Relationship (Note 2)	General ledger account	Amount	Transaction terms	Percentage of consolidated total operating revenues or total assets (Note 3)
2	Realtek Singapore Private Limited	Cortina Access, Inc.	3	Technical service fees		No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.35%
2	Realtek Singapore Private Limited	Cortina Access, Inc.	3	Other payables	20,143	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.03%
2	Realtek Singapore Private Limited	Cortina Network Systems Shanghai Co., Ltd.	3	Technical service fees	106,735	No similar transaction can be compared with.  Transaction prices and terms are determined in accordance with mutual agreement.	0.18%
2	Realtek Singapore Private Limited	Cortina Network Systems Shanghai Co., Ltd.	3	Other payables	27,690	No similar transaction can be compared with.  Transaction prices and terms are determined in accordance with mutual agreement.	0.04%
2	Realtek Singapore Private Limited	Cortina Systems Taiwan Limited	3	Technical service fees	96,982	No similar transaction can be compared with.  Transaction prices and terms are determined in accordance with mutual agreement.	0.16%
2	Realtek Singapore Private Limited	Realtek Semiconductor (Japan) Corp.	3	Technical service fees	35,055	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.06%
2	Realtek Singapore Private Limited	RayMX Microelectronics Corp.	3	Other receivables	48,980	No similar transaction can be compared with. Transaction prices and terms are determined in accordance with mutual agreement.	0.07%

Note 1: The numbers filled in for the transaction company in respect of inter-company transactions are as follows:

- (1) Parent company is '0'.
- (2) The subsidiaries are numbered in order starting from '1'.

Note 2: Relationship between transaction company and counterparty is classified into the following three categories; fill in the number of category each case belongs to (If transactions between parent company and subsidiaries or between subsidiaries refer to the same transaction, it is not required to disclose twice. For example, if the parent company has already disclosed its transaction with a subsidiary, then the subsidiary is not required to disclose the transaction; for transactions between two subsidiaries, if one of the subsidiaries has disclosed the transaction, then the other is not required to disclose the transaction.):

- (1) Parent company to subsidiary.
- (2) Subsidiary to parent company.
- (3) Subsidiary to subsidiary
- Note 3: Regarding percentage of transaction amount to consolidated total operating revenues or total assets, it is computed based on period-end balance of transaction to consolidated total assets for balance sheet accounts and based on accumulated transaction amount for the period to consolidated total operating revenues for income statement accounts.
- Note 4: Only transactions above NT\$10 million are disclosed. Transactions of related parties are not further disclosed here.

### Information on investees

For the year ended December 31, 2019

Table 8

				Initial invest	ment amount	Shares he	eld as at December	31, 2019	_		
Investor	Investee	Location	Main business activities	Balance as at December 31, 2019	Balance as at December 31, 2018	Number of shares	Ownership (%)	Book value	Net profit (loss) of the investee for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	Footnote
Realtek Semiconductor Corporation	Leading Enterprises Limited	British Virgin Islands	Investment holdings	\$ 15,005,734	\$ 15,318,249	39,130	100% \$	11,151,040	\$ 282,019	\$ 282,019	Subsidiary
Realtek Semiconductor Corporation	Amber Universal Inc.	British Virgin Islands	Investment holdings	4,739,146	4,837,812	41,432	100%	3,312,175	87,008	87,008	Subsidiary
Realtek Semiconductor Corporation	Realtek Singapore Private Limited	Singapore	ICs manufacturing, design, research, development, sales, and marketing	2,408,480	2,458,640	80,000,000	89.03%	10,370,572	6,306,957	5,638,064	Subsidiary
Realtek Semiconductor Corporation	Bluocean Inc.	Cayman Islands	Investment holdings	3,313,165	3,382,167	110,050,000	100%	3,479,391	111,913	111,913	Subsidiary
Realtek Semiconductor Corporation	Talent Eagle Enterprise Inc.	Cayman Islands	Investment holdings	3,435,095	3,506,635	114,100,000	100%	2,585,499	( 278,776)	( 278,776)	Subsidiary
Realtek Semiconductor Corporation	Realtek Investment Singapore Private Limited	Singapore	Investment holdings	6,021,200	6,146,600	200,000,000	100%	6,494,453	203,956	203,956	Subsidiary
Realtek Semiconductor Corporation	Realsun Investments Co., Ltd.	Taiwan	Investment holdings	280,000	280,000	28,000,000	100%	354,481	6,966	6,966	Subsidiary
Realtek Semiconductor Corporation	Hung-wei Venture Capital Co., Ltd.	Taiwan	Investment holdings	250,000	250,000	25,000,000	100%	418,438	19,668	19,668	Subsidiary
Realtek Semiconductor Corporation	Realking Investments Limited	Taiwan	Investment holdings	293,930	293,930	29,392,985	100%	286,939	( 1,384)	( 1,384)	Subsidiary
Realtek Semiconductor Corporation	Realsun Technology Corporatioin	Taiwan	ICs manufacturing, design, research, development, sales, and marketing	5,000	5,000	500,000	100%	5,107	47	47	Subsidiary
Realtek Semiconductor Corporation	Bobitag Inc.	Taiwan	Manufacturing and installation of computer equipment and wholesasle, retail and related services of electronic materials and information/software	19,189	20,000	1,918,910	66.67%	19,398	277	184	Subsidiary
Realtek Semiconductor Corporation	Technology Partner V Venture Capital Corporation	Taiwan	Investment holdings	66,657	84,565	4,178,509	32.43%	22,247	( 21,594)	( 1,151)	Investments accounted for under equity method
Realtek Semiconductor Corporation	Estinet Technologies Incorporation	Taiwan	Research and development, design, manufacturing, sales and other services of electronic components,information/Software and integrated circuits	110,000	110,000	4,000,000	16.10%	3,701	( 57,015)	( 5,384)	Investments accounted for under equity method
Realtek Semiconductor Corporation	5VTechnologies, Taiwan Ltd.	Taiwan	Research and development, design, manufacturing, sales and other services of electronic components,information/Software and integrated circuits	46,699	46,699	46,699	24.42%	-	( 39,968)	( 9,398)	Investments accounted for under equity method

### Information on investees

For the year ended December 31, 2019

Table 8

Expressed in thousands of NTD (Except as otherwise indicated)

				Initial invest	ment amount	Shares h	eld as at Decembe	r 31, 2019			
Investor	Investee	Location	Main business activities	Balance as at December 31, 2019	Balance as at December 31, 2018	Number of shares	Ownership (%)	Book value	Net profit (loss) of the investee for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	Footnote
Realking Investments Limited	Innorich Venture Capital Corp.	Taiwan	Venture capital activities	\$ 200,000		20,000,000	37.38%		(\$ 21,228)	(\$ 7,900)	Investments accounted for under equity method
Leading Enterprises Limited	Realtek Semiconductor (Japan) Corp.	Japan	ICs deign,sales, and consultancy	5,542	5,568	400	100%	2,483	255	255	Sub-Subsidiary
Leading Enterprises Limited	Circon Universal Inc.	Mauritius	Investment holdings	1,950,869	1,991,498	64,800,000	100%	8,151	6	6	Sub-Subsidiary
Leading Enterprises Limited	Realtek Singapore Private Limited	Singapore	ICs manufacturing, design, research, development, sales, and marketing	1,257,578	1,283,769	9,856,425	10.97%	1,281,046	6,306,957	691,815	Sub-Subsidiary
Amber Universal Inc.	Realtek Semiconductor (HK) Limited	Hong Kong	Information services and technical support	5,799	5,886	-	100%	1,159	( 25)	( 25)	Sub-Subsidiary
Realtek Singapore Private Limited	Empsonic Enterprises Inc.	Mauritius	Investment holdings	850,495	868,207	2,825,000	100%	1,455,628	98,711	98,711	Sub-Subsidiary
Realtek Singapore Private Limited	Cortina Access Inc.	U.S.A	R&D and information services	1,229,710	1,255,320	16,892	100%	1,025,799	30,063	30,063	Sub-Subsidiary
Realtek Singapore Private Limited	Cortina Systems Taiwan Limited	Taiwan	R&D and technical support	60,212	61,466	21,130,000	100%	61,592	5,371	5,371	Sub-Subsidiary
Realtek Singapore Private Limited	Realtek Viet Nam Co., Ltd.	Vietnam	R&D and technical support	30,106	30,733	1,000,000	100%	19,772	( 9,032)	( 9,032)	Sub-Subsidiary
Talent Eagle Enterprise Inc.	Ubilinx Technology Inc.	U.S.A	R&D and information services	1,204,240	799,058	40,000,000	100%	41,892	( 413,581)	( 413,581)	Sub-Subsidiary

Note: The amount of foreign currencies denominated in New Taiwan dollars in this table, which related to income and expenses were re-translated at the average exchange rate from January 1, 2019 to December 31, 2019, others were re-translated at the exchange rate prevailing at the end of the financial reporting period.

### Information on investments in Mainland China

For the year ended December 31, 2019

Table 9 Expressed in thousands of NTD

(Except as otherwise indicated)

					Amount ren	nitted from							
					Taiwan to	Mainland	Accumulated						
					China/Amou		amount of			Investment income (loss)	)		
					back to Taiwa		remittance from	Net income of		recognised by the	Book value of	Accumulated	
				Accumulated amount of	ended Decem	ber 31, 2019	Taiwan to	investee for the	Ownership held	Company for the year	investment in	amount of investment	
			Investment	remittance from Taiwan to	Remitted to	Remitted	Mainland China	year ended	by the Company	ended December 31,	Mainland China	income remitted back to	
Investee in Mainland			method	Mainland China as of	Mainland	back to	as of December	December 31,	(direct or	2019		Taiwan as of December 31,	
China	Main business activities	Paid-in Capital	(Note1)	January 1, 2019	China	Taiwan	31, 2019	2019	indirect)	(Note2(2C))	31, 2019	2019	Footnote
Cortina Network Systems Shanghai Co., Ltd.	R&D and technical support	\$ 108,382	(2)	\$ 108,382	\$ -	\$ -	\$ 108,382	\$ 7,476	100%	\$ 7,476	\$ 96,784	\$ -	
Realsil Microelectronics Corp.	R&D and technical support	842,968	(2)	842,968	-	-	842,968	99,574	100%	99,574	1,450,798	-	
Realtek Semiconductor (Shen Zhen) Corp.	R&D and technical support	150,530	(2)	150,530	-	-	150,530	22,194	100%	22,194	253,983	-	
Corp.	ICs manufacturing, design, research, development, sales, and marketing	113,445	(2)	113,445	-	-	113,445	( 28,097)	100% (	28,097	85,230	-	
		Investment amount	Cailing on										

Garage	Accumulated amount of remittance from Taiwar to Mainland China as of	Ministry of Economic Affairs	Ceiling on investments in Mainland China imposed by the Investment Commission of	
Company name	December 31, 2019	(MOEA)	MOEA	
Cortina Network Systems Shanghai Co., Ltd.	\$ 108,382	\$ 108,382	\$ 16,331,391	
Realsil Microlectronics Corp.	842,968	842,968		
Realtek Semiconductor (Shan Zhen) Corp.	150,530	150,530		
RayMX Microelectronics Corp.	113,445	113,445		

Note 1: Investment methods are classified into the following three categories; fill in the number of category each case belongs to:

<sup>(1)</sup> Directly invest in a company in Mainland China.

<sup>(2)</sup> Through investing in an existing company in the third area, which then invested in the investee in Mainland China.

<sup>(3)</sup> Others

Note 2: In the 'Investment income (loss) recognised by the Company for the year ended December 31, 2019' column, except for the financial statements of Cortina Network System Shanghai Co., Ltd. were audited by other independent accountants, the remaining financial statements were audited by the independent accountants of parent company in Taiwan.

Note 3: The amount of foreign currencies denominated in New Taiwan dollars in this table, which related to income and expenses were re-translated at the average exchange rate from January 1, 2019 to December 31, 2019, others were re-translated at the exchange rate prevailing at the end of the financial reporting period.