

***Overview on
Taiwan Semiconductor
Industry
(2018 Edition)***



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I. Preface

This *Overview on Taiwan Semiconductor Industry* is a translated excerpt from an ITIS (Industrial Technology Information Services) publication, which provides an overview of Taiwan semiconductor industry in 2017. Also included is a directory of Taiwan semiconductor companies. These data should be valuable to those who wish to establish business relationship in Taiwan.

ITIS is a market research project, which is supported primarily by the Taiwan government. For semiconductor portion of the project, research was conducted in Industrial Economics & Knowledge Center of Industrial Technology Research Institute (IEK/ITRI).

Since the establishment of the Electronics Research and Service Organization of the Industrial Technology Research Institute (ERSO/ITRI) in early 1970's and its successive spin-offs of UMC and TSMC in 1980's, the semiconductor industry in Taiwan has been growing at a fast pace. Currently TSIA represents approximately 72.5% of worldwide IC foundry revenue, 55.9% of worldwide package and testing revenue, and 20.8% of worldwide design revenue. As the industry gains significant role in the global market place, information about Taiwan semiconductor industry is desirable worldwide. TSIA hopes this Overview on Taiwan Semiconductor Industry will serve as a useful reference for our global friends who seek to establish a closer connection with Taiwan semiconductor companies. We welcome your comments.

II. Taiwan Semiconductor industry in Year 2017

Overview of the Year

Taiwan IC industry revenue (including design, manufacturing, packaging, and testing) totaled NT\$2,462.3 billion (about US\$81.0B) in 2017, up 0.5 % from 2016, with NT\$617.1 billion (US\$20.3B) in design, a 5.5% decrease, NT\$1,368.2 billion (US\$45.0B) in manufacturing, a 2.7% increase NT\$1,206.1 (US\$39.7B) in foundry, up 5% and NT\$162.1B (US\$5.3B) in memory and other manufacturing, down 11.8%, NT\$333.0 billion (US\$11.0B) in packaging, a 2.8% increase, and NT\$144.0 billion (US\$4.7B) in testing, a 2.9% growth from 2016. (Exchange rate NT\$/US\$ was 30.4.)

Table 1 Revenue of Taiwan IC Industry, 2017

													NT\$B	
NT\$B	17Q1	17Q1	17Q1	17Q2	17Q2	17Q2	17Q3	17Q3	17Q3	17Q4	17Q4	2017	17/16	
	/16Q4	/16Q1	17/Q2	/17Q1	/16Q2	17Q3	/17Q2	/16Q3	17Q4	/17Q3	/16Q4			
Industry Revenue	571.4	-11.3%	5.0%	572.6	0.2%	-4.8%	642.8	12.3%	-2.5%	675.5	5.1%	4.9%	2,462.3	0.5%
IC Design	139.8	-12.5%	-3.7%	150.6	7.7%	-11.3%	165.9	10.2%	-7.0%	160.8	-3.1%	0.6%	617.1	-5.5%
IC Manufacturing	320.8	-11.0%	8.6%	306.0	-4.6%	-3.7%	352.4	15.2%	-1.8%	389.0	10.4%	7.9%	1,368.2	2.7%
Foundry	284.9	-9.2%	14.4%	267.8	-6.0%	-2.1%	310.4	15.9%	-0.6%	343.0	10.5%	9.3%	1,206.1	5.0%
Memory & Other Manufacturing	35.9	-23.3%	-22.5%	38.2	6.4%	-13.4%	42.0	9.9%	-9.7%	46.0	9.5%	-1.7%	162.1	-11.8%
IC Packaging	77.0	-10.3%	5.5%	82.5	7.1%	3.1%	86.5	4.8%	1.8%	87.0	0.6%	1.4%	333.0	2.8%
IC Testing	33.8	-11.1%	10.8%	33.5	-0.9%	-1.5%	38.0	13.4%	1.3%	38.7	1.8%	1.8%	144.0	2.9%
Product Revenue	175.7	-15.0%	-8.3%	188.8	7.5%	-11.7%	207.9	10.1%	-7.6%	206.8	-0.5%	0.1%	779.2	-6.9%
WW Growth (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	21.6%

(e): estimate

Source : TSIA, IEK-ITRI (June 2018)

Note:

- IC Industry Revenue = IC design + Manufacturing + Packaging + Testing
- IC Production Revenue = IC Design + Memory and Other Manufacturing
- IC Manufacturing Revenue = Foundry + Memory and Other Manufacturing
- Revenue of Inotera (subsidiary of Micron) was excluded from Taiwan Memory revenue from 2017. If excluding revenue from Inotera in 2016, revenue of Taiwan Memory and other manufacturing products increased more than 20% in 2017 and 2017 Taiwan IC industry revenue grew by 2.6%.
- Only companies head-quartered in Taiwan are included in the revenue calculations.

Table 2 Revenue of Taiwan IC Industry, 2014-2018

NT\$B	2014	14/13	2015	15/14	2016	16/15	2017	17/16	2018(e)	18/17(e)
Industry Revenue	2,203.3	16.7%	2,264.0	2.8%	2,449.3	8.2%	2,462.3	0.5%	2,605.0	5.8%
IC Design	576.3	19.8%	592.7	2.8%	653.1	10.2%	617.1	-5.5%	657.8	6.6%
IC Manufacturing	1,173.1	17.7%	1,230.0	4.9%	1,332.4	8.3%	1,368.2	2.7%	1,449.2	5.9%
Foundry	914.0	20.4%	1,009.3	20.4%	1,148.7	13.8%	1,206.1	5.0%	1,267.2	5.1%
Memory & Other Manufacturing	259.1	9.2%	220.7	-14.8%	183.7	-16.8%	162.1	-11.8%	182.0	12.3%
IC Packaging	316.0	11.1%	309.9	-1.9%	323.8	4.5%	333.0	2.8%	348.0	4.5%
IC Testing	137.9	8.9%	131.4	-4.7%	140.0	6.5%	144.0	2.9%	150.0	4.2%
Product Revenue	835.4	16.3%	813.4	-2.6%	836.8	2.9%	779.2	-6.9%	839.8	7.8%
WW Growth (%)	-	9.9%	-	-0.2%	-	1.1%	-	21.6%	-	6.1%

(e): estimate

Source : TSIA, IEK-ITRI (June 2018)

By the end of 2017, Taiwan Semiconductor industry consisted of 240 IC fabless design houses, 15 fabrication companies, 37 packaging and testing houses, 7 substrate suppliers, 11 wafer suppliers, 3 mask makers, and 4 lead frames companies (Figure 1).

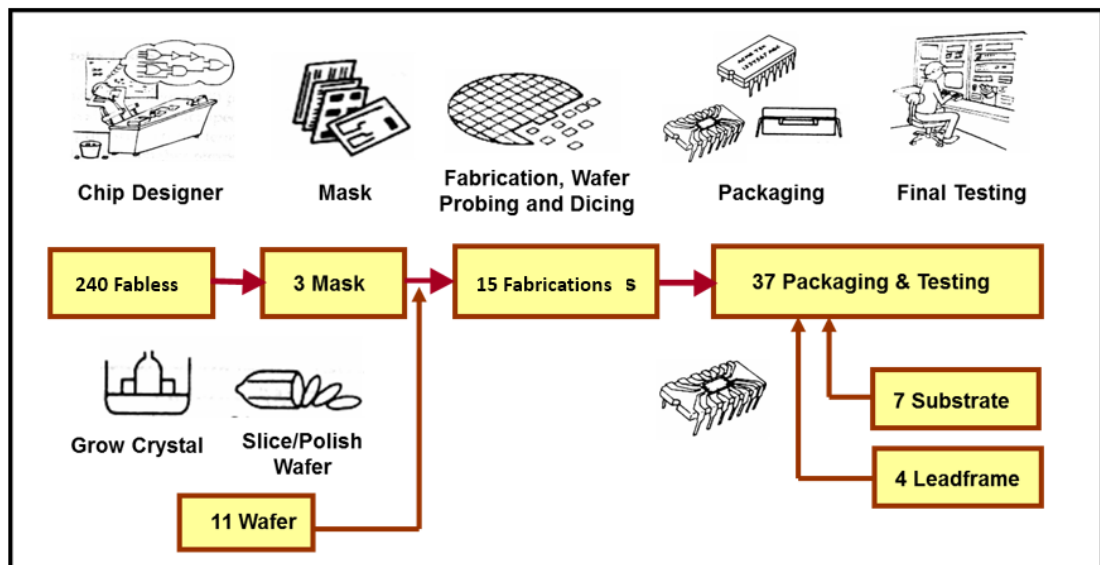


Fig. 1 Unique Infrastructure in Taiwan (2017)

IC Fabless Companies

In 2017, there were 240 design houses in Taiwan (Table 3). Taiwan IC design revenue this year was \$617.1 billion, a 5.5% decrease from the previous year. Taiwan still follows behind the US as the world's second strongest presence in this field, and accounts for 18.0% of worldwide IC design market. That percentage is expected to raise up to 18.4% in 2018 thanks to the release of new mobile phones and the strong demand for SSD chips.

Taiwan IC design companies invested NT\$108.0 billion in R&D in 2017, which represented 17.5% of total Taiwan fabless revenue. The R&D expense is expected to increase to NT\$115.5 billion in 2018.

Table 3 Major Indices of Taiwan IC Design Business

	2014	2015	2016	2017	2018(e)
# of Companies	245	245	240	240	235
Revenue(NT\$B)	576.3	592.7	653.1	617.1	645.5
Growth (%)	19.8%	2.8%	10.2%	-5.5%	4.6%
WW Market Share	22.2%	20.5%	19.4%	18.0%	18.4%
WW Ranking	2	2	2	2	2
Value Added (NT\$B)	179.0	168.2	163.9	158.9	184.8
Value Added Rate (%)	31.1%	28.4%	25.1%	25.7%	28.6%
R&D Employee (p)	29,573	30,277	29,887	29,555	30,005
R&D Expense (NT\$B)	95.1	99.8	109.0	108.0	115.5
R&D Expense/ Revenue (%)	16.5%	16.8%	16.7%	17.5%	17.9%
Workforce(P)	42,000	42,500	42,000	41,000	41,500
Average revenue per workforce (NT\$M)	13.7	13.9	15.6	15.1	15.6

Note: (e) stands for estimate

Source : TSIA, IEK-ITRI (June 2018)

Table 4 Top 10 Fabless Companies in Taiwan, 2017

NT\$B

2017 Ranking	2016 Ranking	Companies	2016 Revenue	2017 Revenue	Growth (%)
1	1	Mediatek	275.5	238.2	-13.5%
2	2	Novatek	45.7	47.1	3.1%
3	3	PHISON	43.8	41.9	-4.4%
4	4	Realtek	38.9	41.7	7.1%
5	5	Himax	25.9	20.8	-19%
6	6	Silicon Motion	17.9	15.9	-11%
7	10	Global Unichip	9.3	12.2	31%
8	7	Focaltek	11.0	10.8	-2%
9	9	ESMT	9.3	10.5	12%
10	8	Sitronix	10.2	9.4	-7%

Note: Based on companies' combined revenue.

Source : Company Statement; TSIA, IEK-ITRI (June 2018)

Table 4 shows the top 10 Taiwan Fabless Companies in 2017. Mediatek remained at the top thanks to its strength in chips and platforms for smart handheld devices. Mediatek generated a revenue of NT\$238.2B in 2017, a decrease of 13.5% from 2016, but still accounted for 39% of Taiwan's IC Design revenue. Novatek came second, generating a revenue of NT\$47.1B, while PHISON came third with a revenue of NT\$41.9B.

IC Manufacturing

As of 2017, there were 15 IC wafer fabrication companies in Taiwan, including foundry companies such as TSMC, UMC, Powerchip, Vanguard, Epasil, Mosel, Lite-on Semiconductor, AMPI, Maxchip, Win Semiconductors, Nuvoton and AWSC; memory manufacturers such as Winbond, MXIC, and Nanya Technology. Inotera was acquired by Micron in 2016 and was not included in this list.

Driven by the release of new phones in the second half of 2017, communication was the largest application area in foundry business and comprised more than 60% of foundry revenue in 2017. Capital expense was NT\$432.5 billion, which accounted for 31.6% of total Taiwan manufacturing revenue and a 3.4% decrease from the year before. R&D expense decreased to NT\$116.4 billion, which accounted for 8.5% of total manufacturing revenue.

Table 5 Major Indices of Taiwan IC Fabrication Business

	2014	2015	2016	2017	2018(e)
# of Companies	16	16	16	15	15
Revenue(NT\$B)	1,173.1	1,230.0	1,332.4	1,368.2	1,430.0
Growth (%)	17.7%	4.9%	8.3%	2.7%	4.5%
WW Market Share (Foundry)	71.4%	70.3%	70.7%	73.2%	85.8%
WW Ranking (Foundry)	1	1	1	1	1
Value Added (NT\$B)	802.5	844.1	888.4	932.7	1,015.9
Value Added Rate (%)	68.4%	68.6%	66.7%	68.2%	70.1%
Capital Investment (NT\$B)	384.9	392.6	466.0	432.5	441.6
Capital Investment /Revenue (%)	32.8%	31.9%	35.0%	31.6%	30.9%
R&D Employee (p)	8,784	8,907	9,131	8,339	9,265
R&D Expense (NT\$B)	95.4	102.7	135.4	116.4	137.6
R&D Expense/ Revenue (%)	8.1%	8.3%	10.2%	8.5%	9.6%
Workforce(P)	85,674	87,559	88,960	83,392	84,226
Average revenue per workforce (NT\$M)	13.7	14.0	15.0	16.0	17.0

Source : TSIA, IEK-ITRI (June 2018)

TSMC remained the top IC manufacturing company in Taiwan in 2017, with NT\$977.4 billion in revenue, up 3.1% from 2016. UMC remained number two, with revenue increased by 0.9% to reach NT\$149.3 billion.

Table 6 Top 10 Fabrication Companies in Taiwan, 2017

NT\$B

2017 Ranking	2016 Ranking	Companies	2016 Revenue	2017 Revenue	Growth (%)
1	1	TSMC	947.9	977.4	3.1%
2	2	UMC	147.9	149.3	0.9%
3	5	Nanya	41.6	54.9	32.0%
4	3	Winbond	42.1	47.6	13.1%
5	4	Powerchip	41.8	46.3	10.8%
6	7	MXIC	24.1	34.2	41.9%
7	6	Vanguard	25.8	24.9	-3.5%
8	8	Win Semiconductors	13.6	17.1	25.7%
9	9	Lite-On	10.5	11.5	9.5%
10	10	Nuvoton	8.3	9.2	10.8%

Source : Company Statement, TSIA, IEK-ITRI (June 2018)

IC Packaging & Testing

As of 2017, there were 37 packaging and testing companies in Taiwan. Revenue reached NT\$477.0 billion, which represented 55.84% of worldwide packaging and testing revenue and ranked number one worldwide, followed by China and the United States.

Table 7 Major Indices of Taiwan Packaging and Testing Industry

	2014	2015	2016	2017	2018(e)
# of Companies	37	37	37	37	37
Revenue (NT\$B)	453.9	441.3	463.8	477.0	474.5
Growth (%)	10.4%	-2.8%	5.1%	2.8%	-0.5%
WW Market Share	55.9%	54.2%	55.5%	55.84%	51.06%
WW Ranking	1	1	1	1	1
Value-Added (NT\$B)	222.9	200.8	223.1	228.0	229.2
Value-Added Rate (%)	49.1%	45.5%	48.1%	47.8%	48.3%
Capital Investment (NT\$B)	95.3	85.7	95.0	97.5	97.7
Capital Investment/ Revenue (%)	21.0%	19.4%	20.5%	20.4%	20.6%
R&D Employee (p)	4,060	4,250	4,200	4,220	4,400
R&D Expense (NT\$B)	15.4	16.2	15.2	15.5	16.1
R&D Expense/Revenue(%)	3.4%	3.6%	3.3%	3.2%	3.4%
Workforce (p)	94,000	95,100	97,200	98,800	99,500
Average revenue per workforce (NT\$M)	4.8	4.6	4.8	4.8	4.8

Source : TSIA, IEK-ITRI (June 2018)

Table 8 Top 10 IC Packaging and Testing Companies

NT\$B

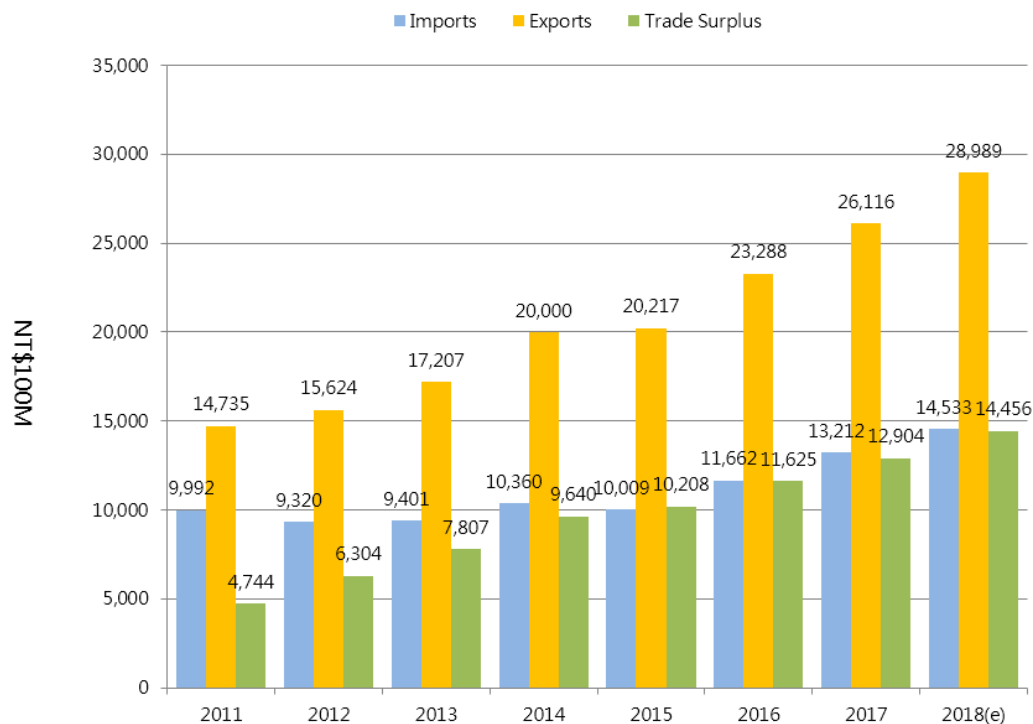
2017 Ranking	2016 Ranking	Company	2016 Revenue	2017 Revenue	Growth (%)
1	1	ASE	152.3	152.4	0.0%
2	2	SPIL	85.1	83.6	-1.8%
3	3	PTI	48.3	59.6	23.4%
4	4	KYEC	20.1	19.7	-2.0%
5	6	Chipbond	17.3	18.4	6.8%
6	5	Chipmos	19.4	17.9	-7.5%
7	7	OSE	15.8	13.9	-11.9%
8	8	Walton	8.7	9.4	7.8%
9	9	FATC	8.5	7.9	-7.1%
10	11	Ardentec	6.3	7.9	25.6%

Source : Company Statement; TSIA, IEK-ITRI (June 2018)

Table 7 shows the top 10 Taiwan packaging and testing companies in 2017. Total revenue of top 5 (ASE, SPIL, PTI, KYEC, and Chipbond) companies comprised 70.0% of total Taiwan packaging and testing revenue and revenue of top 10 comprised 82.8%, demonstrating the dominance of the top companies in the industry.

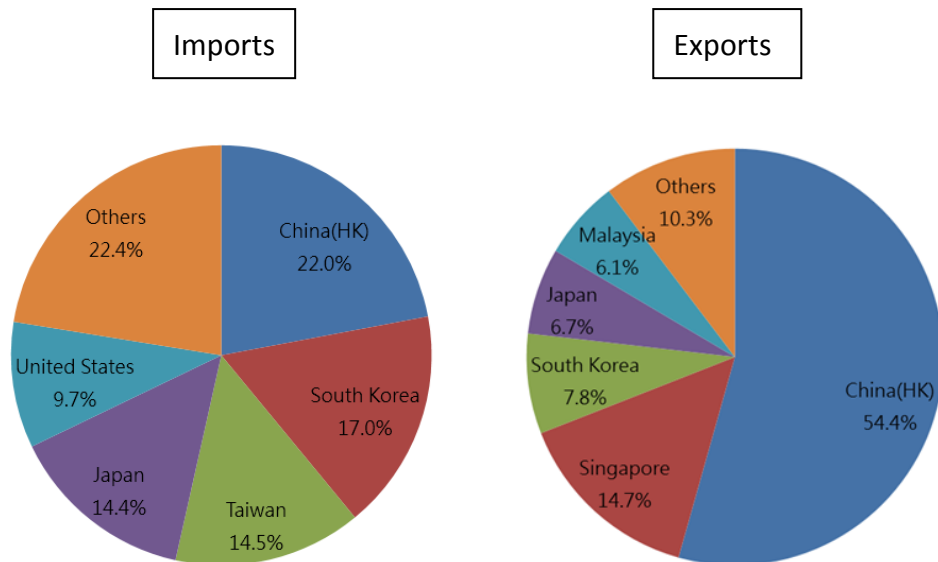
III. Taiwan IC Market

In 2017, imported ICs increased 13.3% to NT\$1,321.2 billion (NT\$1,166.2 in 2016) and exported ICs increased 12.1% to NT\$2,611.6 billion (NT\$2,328.8B in 2016). Major import countries of Taiwan in 2017 were China (including HK), South Korea, Japan, The US, and Singapore. Major export countries of Taiwan were China (including HK), Singapore, South Korea, Japan, and Malaysia. Surplus was NT\$1,290.4 billion in 2017, up 11.0% on-year and is expected to increase 12.0% to reach NT\$1,445.6 billion in 2018.



Source : Taiwan Customs ; TSIA, IEK-ITRI (June 2018)

Figure 2 Import/Export Value of Taiwan IC Market



Source : Taiwan Customs ; TSIA, IEK-ITRI (June 2018)

Figure 3 Major Import/Export Regions of Taiwan IC Market

In 2017, Taiwan imported the most from China (including HK) (22.0%) followed by South Korea (17.0%), Taiwan (14.5%, goods origin from Taiwan which was determined following the official rules – the “Regulations Governing the Determination of Country of Origin of an Import Good” or from Export Processing Zone), Japan (14.4%), and the United States (9.7%).

In terms of exports in 2017, Taiwan exported the most to China (including HK) with 54.4%, followed by Singapore (14.7%), South Korea (7.8%), Japan (6.7%) and Malaysia (6.1%).

IV. Outlook

Driven by the demand for AI and more intelligent devices, Taiwan Semiconductor revenue (including design, manufacturing, packaging, and testing) is expected to reach NT\$2,550.0 billion in 2018, up 3.6 % from 2017, with NT\$645.5 billion in design, a 4.6% increase, NT\$1,430.0 billion in manufacturing, a 4.5% increase, and NT\$474.5 billion in packaging and testing, a 0.5% decrease.

V. Directory of Taiwan Semiconductor Companies

Fabless

5V Technologies

TEL:886-2-27888118

FAX:886-2-27887366

www.5vtechnologies.com

AAT

TEL:886-3-6209588

FAX:886-3-6209599

www.aat-ic.com

ACARD

TEL:886-2-85122290

FAX:886-2-85122548

www.acard.com

AccFast

TEL:886-3-6662756

FAX:886-3-6662758

www.accfast.com.tw

AIC

TEL: 886-3-5772500

FAX:886-3- 5772510

www.analog.com.tw

AiT

TEL:886-2-26961202

FAX:886-2-26961201

www.ait-ic.com

Airoha

TEL: 886-3-6128800

FAX:886-3- 6118833

www.airoha.com.tw

Alchip Technologies

TEL: 886-2-27992318

FAX:886-2-27997389

www.alchip.com

Alcor Micro

TEL:886-2-26535000

FAX:886-2-26534000

www.alcormicro.com

AlfaPlus

TEL:886-3-5163270

FAX:886-3-5163267

www.alfaplus.com.tw

ALI

TEL:886-2-87522000

FAX:886-2-87511001

www.ali.com.tw

Alpha

TEL:886-3-5736660

FAX:886-3-5736661

www.ealpha.com.tw

Altus

TEL:886-37-586860

www.altus-tech.com

Amazing Microelectronic

TEL:886-2-82278989

FAX:886-2-82278969

www.amazingic.com

AMIC

TEL:886-3-5679966

FAX:886-3-5679977

www.amictechnology.com

AMICCOM

TEL:886-3-5601717

FAX:886-3-5601715

www.amiccom.com.tw

Amtek

TEL:886-2-29998989

FAX:886-2-29992929

www.amtek-semi.com

AnaGlobe

TEL:886-3-5613650

FAX:886-3-5612310

www.anaglobe.com.tw

ANDES

TEL:886-3-6668300

FAX:886-3-6668322

www.andestech.com

ANPEC

TEL:886-3-5642000

FAX:886-3-5642050

www.anpec.com.tw

AnSC

TEL:886-3-6669898

FAX:886-3-5632246

www.ansc.com.tw

AP Memory
TEL:886-3-5601588
FAX:886-3-5601518
www.apmemory.com.tw

Appo Tech
TEL: 886-3-5719960
FAX: 886-3-5719969
www.appotech.com

Asolid
TEL:886-3-5736032
FAX:886-3-5736300
www.asolid-tek.com

ATECH
TEL:886-2-82215488
FAX:886-2-82215489
www.8tec.com

AVID
TEL:886-3-5795222
FAX:886-3-5787789
www.avid.com.tw

AXElite
TEL:886-3-5776662
FAX:886-3-5788661
www.axelite.com.tw

CDT
TEL:886-2-22994908
FAX:886-2-22990133
www.cdt.com.tw

CHESEN
TEL:886-2-82265589
FAX:886-2-82265181
www.chesen.com.tw

APEC
TEL:886-3-6215899
FAX:886-3-6215999
www.a-power.com.tw

ASIX
TEL:886-3-5799500
FAX:886-3-5799558
www.asix.com.tw

ASPEED
TEL:886-3-5789568
FAX:886-3-5789586
www.aspeedtech.com

AuMOS
TEL:886-3-5790567
FAX:886-3-5775909
www.aumos.com.tw

Avisonic
TEL:886-3-5778077
FAX:886-3-6661301
www.avisonic.com

BiTEK
TEL:886-2-25705818
FAX:886-2-25708118
www.bitek.com.tw

CFP
TEL:886-2-22326558
FAX:886-2-22327558
www.cfpt.com.tw

Chip Goal
TEL:886-3-5169219
FAX:886-3-5169197
www.chipgoal.com

APLUS
TEL:886-2-27829266
FAX:886-2-27829255
www.aplusinc.com.tw

Asmedia
TEL:886-2-22196088
FAX:886-2-22196080
www.asmedia.com.tw

ASUKA
TEL:886-3-6667117
FAX:886-3-6667104
www.asuka-mobile-tv.com

AverLogic
TEL:886-2-87523988
FAX:886-2-87523989
www.averlogic.com

AviQ
TEL:886-3-5225019
FAX:886-3-5225839
www.aviqtech.com

Capella
TEL:886-2-82186600
FAX:886-2-82186602
www.capellamicro.com

Champion
TEL:886-3-5679979
FAX:886-3-5679909
www.championmicro.com.tw

Chip Hope
TEL:886-2-82271166
FAX:886-2-822711296
www.chiphope.com

CHIPMAST

TEL:886-3-5510850

FAX:886-3-5510860

www.chipmast.com.tw**Cion**

TEL:886-3-6003888

FAX:886-3-6002888

CoAsia

TEL:886-2-26557699

FAX:886-2-26557189

www.coasia.com.tw**DATARiT**

TEL:886-3-6589597

FAX:886-3-6589902

DIGIWELL

TEL:886-3-5782910

FAX:886-3-5639464

www.digiwell.com.tw**E-COM**

TEL:886-2-22180516

FAX:886-2-22180780

www.eecom.com.tw**Egis Technology**

TEL:886-2-26589768

FAX:886-2-26588368

www.egistec.com**eMemory**

TEL:886-3-5601168

FAX:886-3-5601169

www.ememory.com.tw**CHiPLUS**

TEL:886-3-5637887

FAX:886-3-5637877

www.chiplus.com/tw/**C-Media**

TEL:886-2-87731100

FAX:886-2-87732211

www.cmedia.com.tw**CTC**

TEL:886-3-5311161

FAX:886-3-5338403

www.ctcasic.com.tw**Davicom**

TEL:886-3-5798797

FAX:886-3-5646929

www.davicom.com.tw**Dorado**

TEL:886-3-5730608

FAX:886-3-5735136

www.dorado-da.com**EE Solutions**

TEL:886-3-5678568

FAX:886-3-5678611

www.e2-solutions.com.tw**ELAN**

TEL:886-3-5639977

FAX:886-3-5639966

www.emc.com.tw**ENE**

TEL:886-3-6662888

FAX:886-3-6662999

www.ene.com.tw**CHIPSIP**

TEL:886-2-82271799

FAX:886-2-82271798

cht.chipsip.com**CMSC**

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TMC Mask Corp.

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