

***Overview on
Taiwan Semiconductor
Industry
(2015 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 2014. 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 very fast pace. Currently TSIA represents approximately 71.3% of worldwide IC foundry revenue, around 54.8% of worldwide package and testing revenue, around 22.2% 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 2014

Overview of the Year

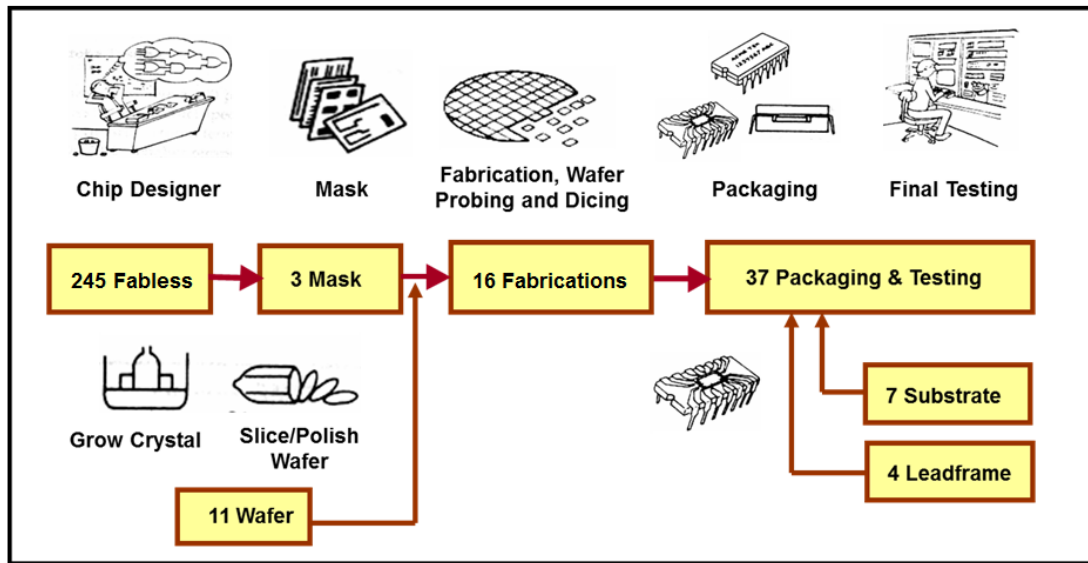
Taiwan Semiconductor revenue (including design, manufacturing, packaging, and testing) totaled NT\$2,203.3 billion (about US\$72.5B) in 2014, up 16.7% from 2013, with NT\$576.3 billion (US\$19.0B) in design, a 19.8% increase, NT\$1,173.1 billion (US\$38.6B) in manufacturing, a 17.7% increase (NT\$914.0B (US\$30.1B) in foundry, up 20.4% and NT\$259.1B (US\$8.5B) in memory, up 9.2%), NT\$316.0 billion (US\$10.4B) in packaging, up 11.1%, and NT\$137.9 billion (US\$4.5B) in testing, up 8.9%. Representing 30.4% of the US\$335.8B worldwide market, Taiwan IC industry was ranked number two, second to the US market. (Exchange rate NT\$/US\$ is 30.4.)

Table 1 Major Indices for Taiwan IC Industry

	2013	2014	2015(e)	2016(f)	2017(f)
Industry Revenue	1,888.6	2,203.3	2,246.6	2,374.9	2,529.0
IC Design	481.1	576.3	562.6	600.0	640.0
IC Manufacturing	996.5	1,173.1	1,242.7	1,320.9	1,403.0
Foundry	759.2	914.0	1,013.7	1,105.9	1,192.2
Memory	237.3	259.1	229.0	215.0	210.8
IC Packaging	284.4	316.0	310.0	318.0	340.0
IC Testing	126.6	137.9	131.3	136.0	146.0
Product Revenue	718.4	835.4	791.6	815.0	850.8

Source : IEK-ITRI, TSIA (August 2015)

By the end of 2014, Taiwan Semiconductor industry consisted of 245 IC fabless design houses, 16 fabrication companies, 37 packaging and testing houses, 7 substrate suppliers, 11 wafer suppliers, 3 mask makers, and 4 leadframes companies, etc. (Figure 1). The advantages of cost efficiency, flexibility, and speed resulted from the vertically integrated infrastructure and the industry cluster effect have made Taiwan IC industry highly competitive in the global market.



Source : IEK-ITRI, TSIA (July 2015)

Fig. 1 Unique Infrastructure in Taiwan (2014)

IC Fabless Companies

In 2014, there were 245 design houses in Taiwan (Table 2). Benefited from the growing demand for smart mobile devices in China and some companies' entering into the 20nm technology, Taiwan IC design industry grew 19.8% on-year in 2014, with revenue reaching NT\$576.3 billion, which accounted for 22.2% of worldwide IC design market and ranked number 2 worldwide, following the US. Worldwide market share of Taiwan IC design industry is expected to increase to 22.3% driven by the continuing growth of mobile devices.

Taiwan IC design companies invested NT\$95.1 billion in R&D in 2014, which represented 16.5% of total fabless revenue and is expected to grow to 16.8% in 2015 due to the needs for smaller chip sizes and power saving.

Table 2 Major Indices of Taiwan IC Design Business

	2011	2012	2013	2014	2015(e)
# of Companies	250	260	250	245	240
Revenue(NT\$B)	385.6	411.5	481.1	576.3	562.6
Growth (%)	-15.2%	6.7%	16.9%	19.8%	-2.4%
WW Market Share	20.1%	19.7%	20.8%	22.2%	22.3%
WW Ranking	2	2	2	2	2
Value Added (NT\$B)	94.9	115.6	141.9	166.8	166.0
Value Added Rate (%)	24.6%	28.1%	29.5%	28.9%	29.5%
R&D Employee (p)	2,738.0	2,751.8	2,781.3	2,957.3	3,063
R&D Expense (NT\$B)	64.0	69.5	77.5	95.1	94.5
R&D Expense/ Revenue (%)	16.6%	16.9%	16.1%	16.5%	16.8%
Workforce(P)	37,000	37,800	39,500	42,000	43,000
Average revenue per workforce (NT\$M)	10.4	10.9	12.2	13.7	13.1

Source : IEK-ITRI, TSIA (August 2015)

Table 3 Top 10 Fabless Companies in Taiwan, 2014

NT\$B

2013 Ranking	2014 Ranking	Company	2013 Revenue	2014 Revenue	Growth (%)
1	1	Mediatek	136.1	213.1	56.6%
2	2	Novatek	41.5	54.1	30.4%
4	3	PHISON	32.2	33.1	2.8%
5	4	Realtek	28.2	31.3	10.9%
6	5	Himax	22.8	25.4	11.3%
8	6	Richtek	10.7	11.9	11.2%
9	7	Ilitek	9.6	10.1	4.4%
10	8	Focaltech	9.4	9.9	5.7%
14	9	ESMT	6.8	9.8	44.0%
11	10	Sunplus	8.5	8.7	2.2%

Note: 1. Based on companies' combined revenue.
2. Morning Star revenue goes to Mediatek from February 2014
Source : Company Statement; IEK-ITRI, TSIA (May 2015)

Table 3 shows the top 10 Taiwan Fabless Companies in 2014. The baseband chipset design company, Mediatek, remained at the top, earning \$54.1 billion with a 56.6% increase in revenue due to its strength in chips for smart handheld devices. LCD driver IC design company, Novatek, and PHISON Electronic Corps, ranked number two and three, with NT\$33.1 billion and NT\$31.3 billion in revenue, respectively. Realtek was fourth, earning NT\$25.4 billion while Himax was fifth, with NT\$11.9 billion in revenue

IC Fabrication

As of 2014, there were 16 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; IDMs such as Winbond and MXIC; and memory manufacturers such as Nanya and Inotera. Rexchip was acquired by Micron in 2013 and was not included in this list.

Taiwan IC manufacturing revenue (including foundry and memory) hit a record high in 2014 to reach NT\$1,173.1 billion, up 17.7% from 2013, thanks to the revenue growth from new mobile communication devices and demand for special process technology for IoT products. Foundry revenue grew 20.4% to reach NT\$914 billion and Memory revenue increased 9.2% to reach NT\$259.1 billion.

Table 4 Major Indices of Taiwan IC Fabrication Business

	2011	2012	2013	2014	2015(e)
# of Companies	16	15	15	16	16
Revenue(NT\$B)	786.7	829.2	996.5	1,173.1	1,242.70
Growth (%)	-12.6%	5.4%	20.2%	17.7%	5.9%
WW Market Share	69.0%	67.8%	70.3%	71.4%	71.9%
WW Ranking	1	1	1	1	1
Value Added (NT\$B)	436.6	486.7	585.9	696.2	732
Value Added Rate (%)	55.5%	58.7%	58.8%	59.4%	58.9%
Capital Investment (NT\$B)	396.2	377.6	346.8	384.9	466.5
Capital Investment /Revenue (%)	50.4%	45.5%	34.8%	32.8%	37.5%
R&D Employee (p)	8,382	8,473	8,563	8,784	8,986
R&D Expense (NT\$B)	65.2	73.2	86.6	95.4	102.1
R&D Expense/ Revenue (%)	8.3%	8.8%	8.7%	8.1%	8.2%
Workforce(P)	80,614	83,526	83,854	85,674	87,000
Average revenue per workforce (NT\$M)	9.8	9.9	11.9	13.7	14.3

Source : IEK-ITRI, TSIA (August 2015)

Overall, Taiwan IC manufacturing companies increased 11% in capital investment compared to 2013 to reach NT\$384.9 billion, with foundry companies spending NT\$339.4 billion due to growing demand for smart mobile products and capacity expansion in advanced production process (mainly in 20nm and 16 nm). Capital expending of DRAM companies was NT\$45.5 billion due to the transition into 20nm process technology. The R&D spending in 2014 was NT\$95.4 billion and accounted for 8.14% of total Taiwan IC manufacturing revenue.

Communication application was the largest application area of Taiwan foundry companies in 2014, comprising 55.2%. Information application, the second largest application area, accounted for 17% and consumer application accounted for 12.2%.

Fabless design companies are the major customers of Taiwan IC fabrication companies in 2014, comprising 87.1%. Logic IC was the major product type. 97.2% of Taiwan IC foundry revenue came from micro devices and logic chips.

Table 5 Top 10 Fabrication Companies in Taiwan, 2014 (NT\$B)

2013 Ranking	2014 Ranking	Company	2013 Revenue	2014 Revenue	Growth (%)
1	1	TSMC	597.0	762.8	27.8%
2	2	UMC	123.8	140.0	13.1%
3	3	Inotera	59.0	82.6	40.0%
4	4	Nanya	47.0	49.1	4.5%
6	5	Powerchip	36.2	40.1	10.8%
7	6	Winbond	33.1	38.0	14.7%
9	7	Vanguard	21.1	23.9	13.3%
8	8	MXIC	22.2	22.4	0.9%
10	9	Life-On	9.6	10.2	5.8%
5	-	Micron Memory Taiwan	44.7	-	-

Note: Rexchip acquired by Micron and became Micron Memory Taiwan in 2013.

Source : Company Statement, IEK-ITRI, TSIA (May 2015)

Nine of the top ten Taiwan IC manufacturing companies enjoyed revenue growth in 2014. TSMC and UMC remained the top two, with revenue increased by 27.8% (driven by demand for 20nm advanced process technology) and 13.1% (driven by demand for 8 inch capacity for IoT products), respectively.

IC Packaging & Testing

Taiwan IC packaging and testing revenue reached NT\$453.9 billion (including domestic and overseas sales) in 2014, with NT\$316 billion from packaging and NT\$137.9 billion from testing. Taiwan IC packaging and testing industry remained the number one worldwide, representing 55.9% of worldwide packaging and testing revenue, followed by the US and Singapore. Total capital investment reached NT\$95.3 billion in 2014 and is expected to increase slightly to NT\$96.2 billion in 2015.

Table 6 Major Indices of Taiwan Packaging and Testing Industry

	2011	2012	2013	2014	2015(e)
# of Companies	37	37	37	37	37
Revenue (NT\$B)	390.4	393.5	411.0	453.9	441.3
Growth (%)	-5.9%	0.8%	4.4%	10.4%	-2.8%
WW Market Share	55.2%	55.3%	55.2%	55.9%	56.2%
WW Ranking	1	1	1	1	1
Value-Added (NT\$B)	187.8	192.0	201.0	222.9	217.0
Value-Added Rate (%)	48.1%	48.8%	48.9%	49.1%	49.2%
Capital Investment (NT\$B)	84.7	88.8	87.2	95.3	92
Capital Investment/ Revenue (%)	21.7%	22.6%	20.3%	21.0%	20.8%
R&D Employee (p)	3,755	3,870	4,000	4,060	4,100
R&D Expense (NT\$B)	11.3	13.0	14.6	15.4	15.6
R&D Expense/Revenue(%)	2.9%	3.3%	3.4%	3.4%	3.5%
Workforce (p)	91,520	92,000	93,700	94,000	95,000
Average revenue per workforce (NT\$M)	4.3	4.3	4.6	4.8	4.6

Source : IEK-ITRI, TSIA (August 2015)

Table 7 Top 10 IC Packaging and Testing Companies

NT\$B

2013 Ranking	2014 Ranking	Company	2013 Revenue	2014 Revenue	Growth (%)
1	1	ASE*	143.3	150.8	5.2%
2	2	SPIL	69.4	83.1	19.7%
3	3	PTI**	37.6	40.0	6.5%
4	4	Chipmos	17.3	22.0	27.2%
5	5	Chipbond	15.8	17.7	12.0%
6	6	KYEC	14.7	16.3	10.9%
7	7	OSE	9.6	13.8	43.8%
8	8	FATC	9.0	10.7	18.9%
9	9	Walton	8.9	10.0	12.4%
10	10	Tong Hsing	7.9	8.3	5.1%

* ASE:USI revenue excluded;

** PTI: Greatek revenue included

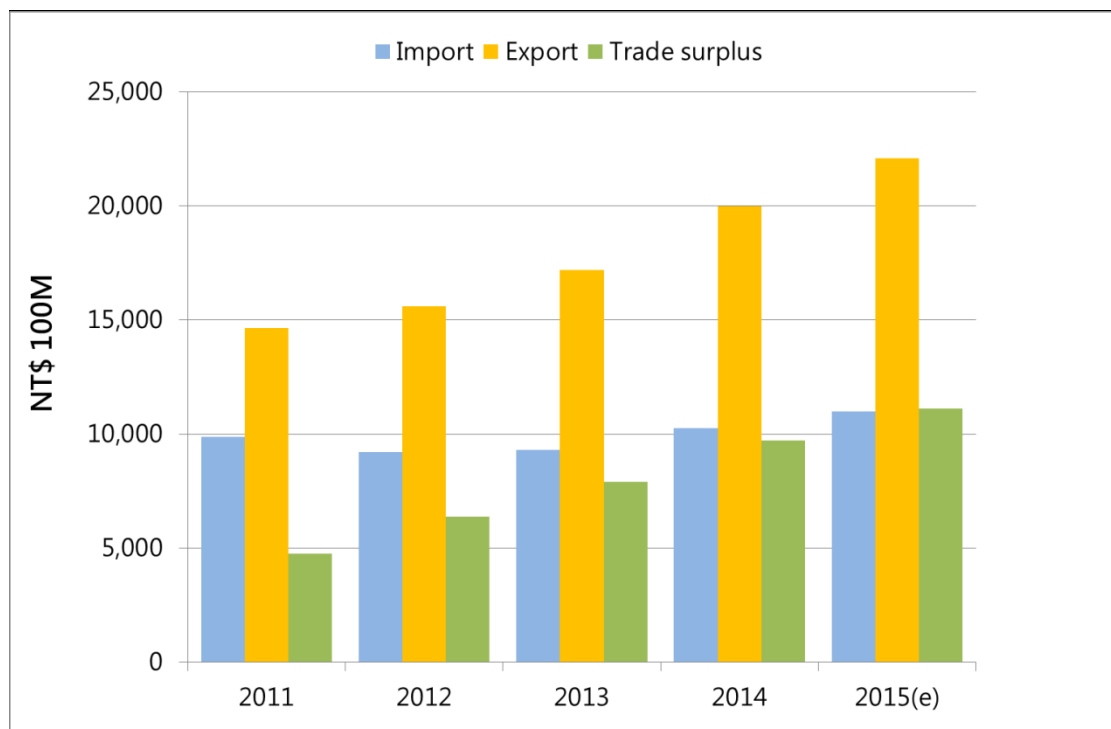
Source : Market Observation Post System; IEK-ITRI, TSIA (May 2015)

Table 7 shows the top 10 Taiwan packaging and testing companies in 2014. Total revenue of top 5 companies comprised 69% of total Taiwan packaging and testing revenue and that of top 10 comprised 81.1%. Thus it is difficult for small companies to compete in this industry.

ASE, SPIL, and PTI remained the top 3 packaging and testing companies in Taiwan in 2014. Smart phones and IoT applications are expected to be the major drivers for revenue growth in 2015.

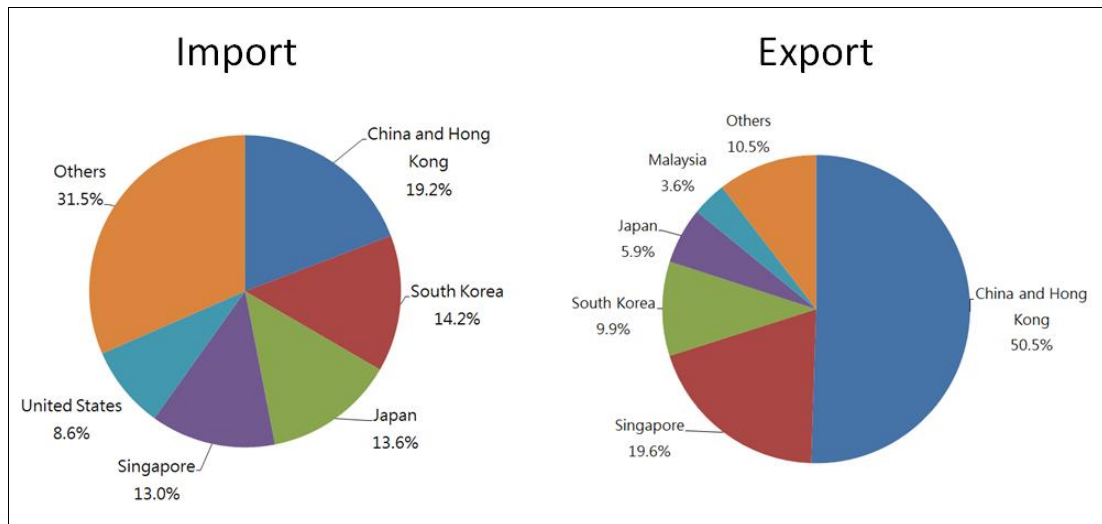
III. Taiwan IC Market

In 2014, imported ICs increased 10.3% to NT\$1,024.8 billion (NT\$928.9B in 2013) and exported ICs increased 16.3% to NT\$1,997.5 billion (NT\$1,718.2B in 2013). Major import countries of Taiwan in 2014 were China (including HK), South Korea, Japan, Singapore, and US. Major export countries of Taiwan were China (including HK), Singapore, South Korea, Japan, and Malaysia. Surplus was NT\$972.7 billion in 2014, up 23.2% on-year and is expected to increase 14.1% to reach NT\$1,110.0 billion in 2015.



Source : Taiwan Customs ; IEK-ITRI, TSIA (May 2015)

Figure 2 Import/Export Value of Taiwan IC Market



Source : Taiwan Customs ; IEK-ITRI, TSIA (May 2015)

Figure 3 Top 10 Import/Export Regions of Taiwan IC Market

IV. Outlook

2015 Taiwan IC revenue is expected to reach NT\$2,246.6 billion, up 2.0% from 2014, with NT\$562.6 billion in design, a 2.4% decrease; NT\$1,242.7 billion in manufacturing, a 5.9% increase (NT\$1,013.7 billion in foundry, up 10.9%, and NT\$229.0 billion in memory, down 11.6%), NT\$310.0 billion in packaging, down 1.9%, and NT\$131.3 billion in testing, down 4.8%.

V. Directory of Taiwan Semiconductor Companies

Fabless

5V Technologies

TEL:886-2-27888118

FAX:886-2-27887366

www.5vtechnologies.com

AAT

TEL:886-3-5633125

FAX:886-3-5633126

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

Acute

TEL:886-3-5790680

FAX:886-3-5775606

www.acutecomm.com.tw

AIC

TEL: 886-3-5772500

FAX:886-3- 5772510

www.analog.com.tw

AIT

TEL:886-3-6560528

FAX:886-3-5589827

www.a-i-t.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

Ambarella

TEL:886-3-6668828

FAX:886-3-6661282

www.ambarella.com

AMIC

TEL:886-3-5679966

FAX:886-3-5679977

www.amictechnology.com

AMICCOM

TEL:886-3-5785818

FAX:886-3-5785819

www.amiccom.com.tw

Amtek

TEL:886-2-29998989

FAX:886-2-29992929

www.amtek-semi.com

ANA

TEL:886-2-26558628

FAX:886-2-26558676

www.anatek.com.tw

AnaGlobe

TEL:886-3-5752420

FAX:886-3-5750704

www.anaglobe.com.tw

ANDES TEL:886-3-6668300 FAX:886-3-6668322 www.andestech.com	AnMO TEL:886-3-5357868 FAX:886-3-5358098 www.anmo.com.tw	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	APEC TEL:886-3-6215899 FAX:886-3-6215999 www.a-power.com.tw	APLUS TEL:886-2-27829266 FAX:886-2-27829255 www.aplusinc.com.tw
Appo Tech TEL: 886-3-5719960 FAX: 886-3-5719969 www.appotech.com	ASIX TEL:886-3-5799500 FAX:886-3-5799558 www.asix.com.tw	Asmedia TEL:886-2-22196088 FAX:886-2-22196080 www.asmedia.com.tw
Asolid TEL:886-3-5736032 FAX:886-3-5736300 www.asolid-tek.com	ASPEED TEL:886-3-5789568 FAX:886-3-5789586 www.aspeedtech.com	ASUKA TEL:886-3-6667117 FAX:886-3-6667104 www.asuka-mobile-tv.com
ATECH TEL:886-2-82215488 FAX:886-2-82215489 www.8tec.com	AuMOS TEL:886-3-5790567 FAX:886-3-5775909 www.aumos.com.tw	AverLogic TEL:886-2-87523988 FAX:886-2-87523989 www.averlogic.com
AVID TEL:886-3-5795222 FAX:886-3-5787789 www.avid.com.tw	Avisonic TEL:886-3-5778077 FAX:886-3-6661301 www.avisonic.com	AviQ TEL:886-3-5225019 FAX:886-3-5225839 www.aviqtech.com
AXElite TEL:886-3-5776662 FAX:886-3-5788661 www.axelite.com.tw	BiTEK TEL:886-2-25705818 FAX:886-2-25708118 www.bitek.com.tw	Capella TEL:886-2-82186600 FAX:886-2-82186602 www.capellamicro.com
CDT TEL:886-2-22994908 FAX:886-2-22990133 www.cdt.com.tw	CFP TEL:886-2-22326558 FAX:886-2-22327558 www.cfpt.com.tw	Champion TEL:886-3-5679979 FAX:886-3-5679909 www.championmicro.com.tw

CHESEN

TEL:886-2-82265589

FAX:886-2-82265181

www.chesen.com.tw

Chip Hope

TEL:886-2-82271166

FAX:886-2-82271355

www.chiphope.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

ELAN

TEL:886-3-5639977

FAX:886-3-5639966

www.emc.com.tw

Chingis

TEL:886-3-5780333

FAX:886-3-5783000

www.chingistek.com

CHIPMAST

TEL:886-3-5510850

FAX:886-3-5510860

www.chipmast.com.tw

C-Media

TEL:886-2-87731100

FAX:886-2-87732211

www.cmmedia.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

ELANsat

TEL:886-3-5635105

FAX:886-3-5635107

www.elansat.com

Chip Goal

TEL:886-3-5169219

FAX:886-3-5169197

www.chipgoal.com

CHiPLUS

TEL:886-3-5637887

FAX:886-3-5637877

www.chiplus.com/tw

CMSC

TEL:886-3-5634866

FAX:886-3-5634863

www.cmssc.com.tw

CYRUSTEK

TEL:886-3-5910216

FAX:886-3-5910217

www.cyrustek.com.tw

DenMOS

TEL:886-3-5665886

FAX:886-3-5665809

www.denmos.com.tw

E-CMOS

TEL:886-3-5785888

FAX:886-3-5783630

www.ecmos.com.tw

EETI

TEL:886-2-87515191

FAX:886-2-27978808

www.eeti.com

eMemory

TEL:886-3-5601168

FAX:886-3-5601169

www.ememory.com.tw

ENABLE

TEL:886-3-5525233

FAX:886-3-5525236

www.enable-semi.com**ENE**

TEL:886-3-6662888

FAX:886-3-6662999

www.ene.com.tw**EON**

TEL:886-3-5525686

FAX:886-3-5525696

www.eonssi.com**EOREX**

TEL:886-3-5585138

FAX:886-3-5585139

www.eorex.com**Epicom**

TEL:886-3-5737585

FAX:886-3-5736328

www.epic.com.tw**ESMT**

TEL:886-3-5781970

FAX:886-3-5644432

www.esmt.com.tw**Etoms**

TEL:886-3-6661766

FAX:886-3-6661765

www.etomscorp.com**Etron**

TEL:886-3-5782345

FAX:886-3-5779001

www.etrn.com**EUTECH**

TEL:886-3-3164556

FAX:886-3-3164557

www.eutechmicro.com**Evercorp.**

TEL:886-2-87971106

FAX:886-2-87971107

EverMore

TEL:886-3-5642062

FAX:886-3-5798303

www.emt.com.tw**EXPLORE**

TEL:886-3-5643595

FAX:886-3-5643596

www.epmi.com.tw**Faraday**

TEL:886-3-5787888

FAX:886-3-5787889

www.faraday-tech.com/index.html**Feeling Technology**

TEL:886-3-5600588

FAX:886-3-6205599

www.feeling-tech.com.tw**Fintek**

TEL:886-3-5600168

FAX:886-3-5600166

www.fintek.com.tw**Fitipower**

TEL:886-3-5788618

FAX:886-3-5788836

www.fitipower.com**Flash Silicon**

TEL:886-3-5600380

FAX:886-3-5600378

www.flashsilicon.com**FocalTech Systems**

TEL:886-3-6672758

FAX:886-3-6675515

www.focaltech-systems.com**Fortune**

TEL:886-2-28094742

FAX:886-2-28094874

www.ic-fortune.com**FRONTAND**

TEL:886-3-3240501

FAX:886-3-3249496

www.frontand.com.tw**Gemstone**

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www.testserv.com.tw**Thai Lin**

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www.thailin.com.tw**TMC**

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www.tmc.com.tw**True Test**

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www.truetest.com.tw**VATE**

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www.vate.com.tw**VisEra**

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www.viseratech.com**Walton**

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www.walton.com.tw**YTEC**

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www.ytec.com.tw

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www.episil.com

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FAX:886-5-6812865

www.fstech.com.tw

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FAX:886-4-23588968

www.niching.com.tw

Precision

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FAX:886-3-5632148

www.psilicon.com.tw

PSi

TEL:886-3-5641888

FAX:886-3-5670888

www.psi.com.tw

SCSC

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FAX:886-3-3852120

www.sanchih.com.tw

Sellingware

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FAX:886-3-5601077

www.sellingware.com.tw

Shin-Etsu

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FAX:886-3-5982204

www.shinetsu.com.tw

Sino-American

TEL:886-3-5772233

FAX:886-3-5781706

www.saswafer.com

SunEdison

TEL:886-3-5783131

FAX:886-3-5791290

www.sunedisonsilicon.com

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TEL:886-3-4815001

FAX:886-3-4815002

www.waferworks.com

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PDMC

TEL:886-3-5679933

FAX:886-3-5678158

www.pdmc.com.tw

TCE

TEL:886-3-3643300

FAX:886-3-3649922

www.tce.com.tw

TMC Mask Corp.

TEL:886-3-5634370

FAX:886-3-5780752

Discrete

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www.liteon-semi.com

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www.rectron.com.tw

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www.ts.com.tw

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www.vishay.com

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www.aocepi.com

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www.cosmo-ic.com

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www.everlight.com

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www.epistar.com.tw

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www.kingbright.com

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FAX:886-3-5770512

www.hw.com.tw

LEDTECH

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www.ledtech.com.tw

Ligitek

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www.liteon.com**Opto Tech**

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www.opto.com.tw**Sinonar**

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www.sinonar.com.tw**Tyntek**

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www.tyntek.com.tw**U.O.C**

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www.uocnet.com**Design Tools****Avery Design Systems**

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