

Overview on
***Taiwan Semiconductor
Industry***
(2014 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 2013. 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 70% of worldwide IC foundry revenue, around 55% of worldwide package and testing revenue, around 21% 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 2013

Overview of the Year

Taiwan Semiconductor revenue (including design, manufacturing, packaging, and testing) totaled NT\$1,888.6 billion (about US\$63.4B, second to the US, and accounted for 20.7% of the US\$305.6B worldwide market), up 15.6% from 2012, with NT\$481.1 billion in design, a 16.9% increase, NT\$996.5 billion in manufacturing, a 20.2% increase (NT\$759.2B, up 17.1% in foundry and NT\$237.3B, down 31.2% in memory), NT\$284.4 billion in packaging, up 4.6%, and NT\$126.6 billion in testing, up 4.2%.

Taiwan IC product revenue (including design and product manufacturing) reached NT\$718.4 billion (about US\$24.1B), ranked number 4 following US, South Korea, and Japan, and accounted for 7.9% of the US\$305.6 billion worldwide market.

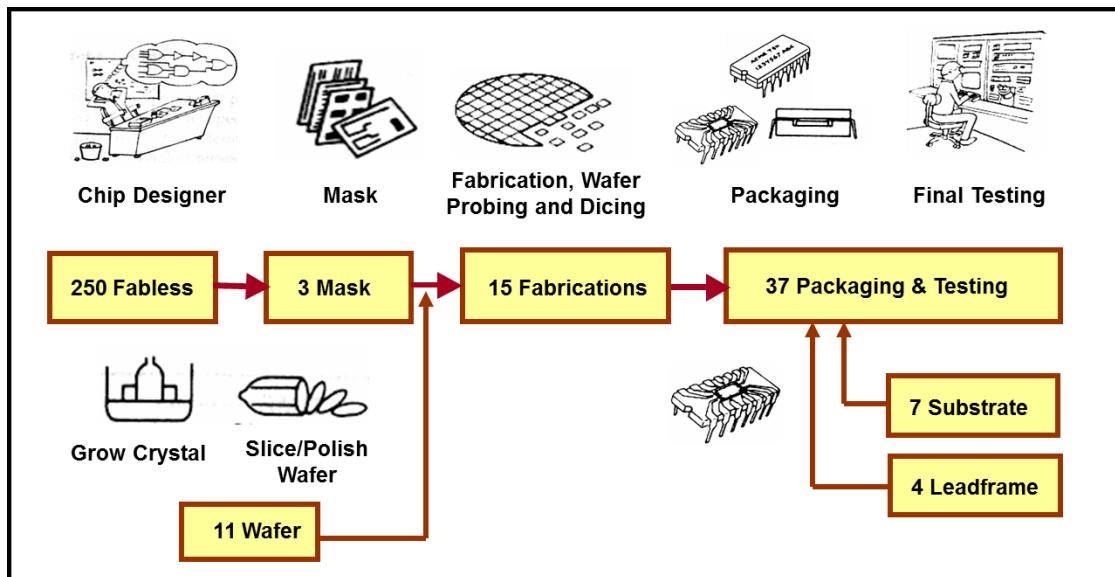
Table 1 Major Indices for Taiwan IC Industry

	NT\$B				
	2012	2013	2014(e)	2015(f)	2016(f)
Industry Revenue	1,634.2	1,888.6	2,109.4	2,255.5	2,385.4
IC Design	411.5	481.1	542.5	587.6	624.5
IC Manufacturing	829.2	996.5	1,122.3	1,192.4	1,258.4
Foundry	648.3	759.2	864.3	931.2	996.2
Memory	180.9	237.3	258.0	261.2	262.2
IC Packaging	272.0	284.4	307.8	330.0	348.5
IC Testing	121.5	126.6	136.8	145.5	154.0
Product Revenue	592.4	718.4	800.5	848.8	886.7

Source : IEK-ITRI, TSIA (May 2014)

By the end of 2013, Taiwan Semiconductor industry consisted of 250 IC fabless design houses, 15 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. In 2013, market share of Taiwan IC design houses was number 2 worldwide (next to the US), foundry was number 1, and IC packaging and testing was number 1.



Source : IEK-ITRI, TSIA (May 2014)

Fig. 1 Unique Disintegrated Infrastructure in Taiwan (2013)

IC Fabless Companies

Driven by the demand for smart phones and tablet PCs, and some companies' entering into the 28nm technology, Taiwan IC design companies performed well in 2013, with revenue reaching NT\$481.1 billion, up 16.9% from 2012. With the growing demand for TVs, sensors, wireless charger applications, and PCs, Taiwan IC design revenue in 2014 is expected to reach NT\$542.5 billion, a 12.8% growth from 2013.

1. Major Indices

In 2013, there were 250 design houses with revenue reached NT\$481.1 billion (Table 2), which comprised 25.5% of the total Taiwan IC revenue (NT\$1,888.6 billion per Table 1) and 20.8% of worldwide IC design market (ranked number 2 worldwide, following the US). The worldwide IC design

market share is expected to grow to 21.5%, thanks to the growing demand for handheld devices. The value added rate of Taiwan IC companies was 29.5% in 2013 and is expected to grow to 31.2% in 2014.

Taiwan IC companies invested NT\$77.5 billion in R&D in 2013, which represented 16.1% of total fabless revenue and is expected to grow to 16.5% in 2014 due to the needs for smaller chip sizes and power saving.

2. Top 10 Fabless Companies in Taiwan

Table 2 shows the top 10 Taiwan Fabless Companies in 2013. The baseband chipset design company, Mediatek, remained the top one with a 37.1% increase in revenue due to its strength in chips for smart handheld devices. LCD driver IC design company, Novatek, and digital TV design company, Morning Star, ranked number two and three, with NT\$41.4 billion (up 12%) and NT\$33.7 billion in revenue, respectively. PHISON Electronics Corps was fourth, earning NT\$32.2 billion while Realtek was fifth, with NT\$28.2 billion in revenue (up 14.5%).

Table 2 Top 10 Fabless Companies in Taiwan, 2013

NT\$B					
2012 Ranking	2013 Ranking	Company	2012 Revenue	2013 Revenue	Growth(%)
1	1	Mediatek	99.26	136.06	37.1%
2	2	Novatek	37.01	41.45	12.0%
3	3	Morning Star	37.50	33.65	-10.2%
4	4	PHISON	33.08	32.17	-2.8%
5	5	Realtek	24.61	28.18	14.5%
6	6	Himax	21.80	22.82	4.7%
8	7	Raydium	10.56	10.90	3.2%
7	8	Richtek	11.02	10.73	-2.6%
9	9	Ilitek	10.55	9.63	-8.7%
15	10	Orise Tech	5.01	9.36	86.8%

Note:

1. Based on companies' combined revenue
2. Morning Star revenue goes to Mediatek from February 2014

Source : Company Statement; IEK-ITRI, TSIA (May 2014)

IC Fabrication

As of 2013, there were 15 IC wafer fabrication companies in Taiwan, including foundry companies such as tsmc, UMC, Vanguard, Episil, Mosel, Lite-on Semiconductor, AMPI, Maxchip, and Win Semiconductors; IDMs such as Winbond and MXIC; and memory manufacturers such as Powerchip, Nanya, Inotera, and Rexchip.

In 2013, Taiwan IC manufacturing revenue (including foundry and memory) totaled NT\$996.5 billion, up 20.2% from 2012. The foundry revenue grew 17.1% thanks to the strong demand for mobile communication products. Memory revenue increased 31.2% to reach NT\$237.3 billion.

1. Major Indices

Overall, Taiwan manufacturing companies increased 8.4% in capital investment compared to 2012, with foundry companies spending US\$11 billion due to growing demand for mobile communication products and capacity expansion in advanced production process (mainly in 40 and 28 nm). On the other hand, capital expanding of DRAM companies was US\$6 billion due to the decreasing demand for high level production process equipment as a result of their transition into memory foundry. The R&D spending in 2013 increased and accounted for 8.7% of total Taiwan IC manufacturing revenue. It is expected that Taiwan companies will increase their capital investments and R&D expenses in 2014 and total Taiwan IC manufacturing revenue is expected to reach NT\$1,122.3 billion in 2014.

Table 3 Major Indices of Taiwan IC Fabrication Business

	2010	2011	2012	2013	2014(e)
# of Companies	14	16	15	15	15
Revenue(NT\$B)	899.7	786.7	829.2	996.5	1,122.3
Growth (%)	56.0%	-12.6%	5.4%	20.2%	12.6%
WW Market Share (Foundry/DRAM)	67.8%	69.0%	67.8%	70.3%	70.5%
WW Ranking (Foundry/DRAM)	1	1	1	1	1
Value Added (NT\$B)	457.1	436.6	486.7	585.9	661.0
Value Added Rate (%)	50.8%	55.5%	58.7%	58.8%	58.9%
Capital Investment (NT\$B)	361.0	396.2	377.6	346.8	354.8
Capital Investment/ Revenue (%)	40.1%	50.4%	45.5%	34.8%	31.6%
R&D Employee (p)	8,265	8,382	8,473	8,563	8,784
R&D Expense (NT\$B)	58.7	65.2	73.2	86.6	94.5
R&D Expense/ Revenue (%)	6.5%	8.3%	8.8%	8.7%	8.4%
Workforce(P)	85,393	80,614	83,526	83,854	85,674
Average revenue per workforce (NT\$M)	10.5	9.8	9.9	11.9	13.1

Source : IEK-ITRI, TSIA (May 2014)

2. Top 10 IC Fabrication Companies in Taiwan

Nine of the top ten manufacturing companies enjoyed revenue growth in 2013. TSMC and UMC remained the top 2 IC fabrication companies in 2013, revenue increased by 17.9% and 16.8%, respectively. Inotera, ranked number 3, with revenue growing 67.1% to reach NT\$59 billion. Benefited from the price surge, DRAM companies enjoyed strong growth in 2013.

Table 4 Top 10 Fabrication Companies in Taiwan, 2013

NT\$B

2012 Ranking	2013 Ranking	Company	2012 Revenue	2013 Revenue	Growth (%)
1	1	TSMC	506.2	597.0	17.9%
2	2	UMC	106.0	123.8	16.8%
3	3	Inotera	35.3	59.0	67.1%
4	4	Nanya	32.5	47.0	44.6%
6	5	Rexchip	27.5	44.7	62.5%
5	6	Powerchip	27.5	36.2	31.6%
7	7	Winbond	25.4	33.1	30.3%
8	8	MXIC	23.9	22.2	-7.1%
9	9	Vanguard	17.2	21.1	22.7%
10	10	Lite-On	6.8	9.6	41.2%

Source : Company Statement, IEK-ITRI, TSIA (May 2014)

IC Packaging & Testing

Taiwan IC packaging and testing revenue reached NT\$411.0 billion in 2013, up 4.4% on-year but was not as good as the growth of total Taiwan IC revenue (15.6%), with NT\$284.4 billion in packaging and NT\$126.6 billion in testing. 2014 is expected to be a better year for packaging and testing companies due to the strong market of middle and low end handheld devices, with revenue forecasted to reach NT\$444.6 billion, an 8.2% rise from 2013.

1. Major Indices

Taiwan packaging and testing revenue represented 55.2% of the global packaging and testing revenue and remained the number 1 in the worldwide market, followed by the US and Singapore. In 2010~2014, add-on values of Taiwan's IC packaging and testing business are between 48~51%. Total capital investment of Taiwan packaging and testing companies reached NT\$87.2 billion in 2013.

Table 5 Major Indices of Taiwan Packaging and Testing Industry

	2010	2011	2012	2013	2014(e)
# of Companies	37	37	37	37	37
Revenue (NT\$B)	414.8	390.4	393.5	411.0	444.6
Growth (%)	31.1%	-5.9%	0.8%	4.4%	8.2%
WW Market Share	55.6%	55.2%	55.3%	55.2%	55.9%
WW Ranking	1	1	1	1	1
Value-Added (NT\$B)	211.1	187.8	192.0	201.0	217.9
Value-Added Rate (%)	50.9%	48.1%	48.8%	48.9%	49.0%
Capital Investment (NT\$B)	93.3	84.7	88.8	87.2	90.0
Capital Investment/Revenue (%)	22.5%	21.7%	22.6%	20.3%	20.2%
R&D Employee (p)	3,796	3,755	3,870	4,000	4,070
R&D Expense (NT\$B)	10.8	11.3	13.0	14.6	15.2
R&D Expense/Revenue(%)	2.6%	2.9%	3.3%	3.4%	3.4%
Workforce (p)	93,972	91,520	92,000	93,700	94,000
Average revenue per workforce (NT\$M)	4.4	4.3	4.3	4.6	4.7

Source : IEK-ITRI, TSIA (May 2014)

2. Top 10 Packaging & Testing Companies

Table 6 shows the top 10 Taiwan packaging and testing companies in 2013. 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 2013.

Table 6 Top 10 IC Packaging and Testing Companies

2012 Ranking	2013 Ranking	Company	2012	2013	Growth (%)	NT\$B
1	1	ASE	130.0	143.3	10.2%	
2	2	SPIL	64.7	69.4	7.3%	
3	3	PTI	41.7	37.6	-9.8%	
4	4	Chipmos	17.0	17.3	1.8%	
5	5	Chibond	15.0	15.8	5.3%	
6	6	KYEC	12.7	14.7	15.7%	
8	7	OSE	10.0	9.6	-4.0%	
7	8	FATC	10.7	9.0	-15.9%	
9	9	Walton	8.3	8.9	7.2%	
10	10	Tong Hsing	7.0	7.9	12.9%	

Source : IEK-ITRI, TSIA (May 2014)

III. Taiwan IC Market

In 2013, Taiwan IC market reached NT\$718.4 billion, a 21.3% increase from the NT\$592.4 billion of 2012. Imported ICs increased 0.9% to NT\$928.9 billion (NT\$920.9B in 2012) and exported ICs increased 10.2% to NT\$1,718.2 billion (NT\$1,559.2B in 2012). Major products included down-stream PCs, DRAM modules, internet and communication products, and LCD monitors, etc. (Table 7)

Table 7 Top 10 Import/Export Regions of Taiwan IC Market

Import				Export				NT\$B
Market Share	Ranking	Market Share	Ranking	Market Share	Ranking	Market Share	Ranking	
1	China	156.1	16.8%	1	Hong Kong	522.5	30.4%	
2	Japan	155.9	16.8%	2	Singapore	340.9	19.8%	
3	South Korea	129.7	14.0%	3	China	331.4	19.3%	
4	Singapore	128.3	13.8%	4	South Korea	178.4	10.4%	
5	USA	73.8	7.9%	5	Japan	110.2	6.4%	
6	Malaysia	44.1	4.8%	6	Malaysia	64.5	3.8%	
7	Philippines	29.1	3.1%	7	Philippines	49.2	2.9%	
8	Germany	14.5	1.6%	8	USA	38.5	2.2%	
9	Thailand	14.1	1.5%	9	Thailand	27.5	1.6%	
10	Costa Rica	13.8	1.5%	10	Germany	12.2	0.7%	
	Others	169.4	18.2%		Others	42.7	2.5%	
	Total	928.9	100.0%		Total	1,718.2	100.0%	

Source : Taiwan Customs ; IEK-ITRI, TSIA (May 2014)

IV. Outlook

The global semiconductor market is expected to grow in 2014. The diversified applications of semiconductor technology will boost the growth of emerging applications such as smart phone and tablet PC markets. Emerging applications such as mobile devices will still be the major driver for growth in 2014. 2014 Taiwan IC revenue is expected to reach NT\$2,109.4 billion, up 11.7% from 2013, with NT\$542.5 billion in design, a 12.8% increase, NT\$1,122.3 billion in manufacturing, a 12.6 % increase, NT\$307.8 billion in packaging, up 8.2%, and NT\$136.8 billion in testing, up 8.1%.

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:886-3-6565051 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 wwwairoha.com.tw
Alchip Technologies TEL: 886-2-27992318 FAX:886-2-26997389 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:886-37-586868 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
Ampson TEL:886-3-5324129 FAX:886-3-5314935 www.ampson.com.tw	Amtek TEL:886-2-29998989 FAX:886-2-29992929 www.amtek-semi.com	ANA TEL:886-2-26558676 FAX:886-2-26558228 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:886-3-5225019 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	Chingis TEL:886-3-5780333 FAX:886-3-5783000 www.chingistek.com
Chip Goal TEL:886-3-5169219 FAX:886-3-5169197 www(chipgoal.com	Chip Hope TEL:886-2-82271166 FAX:886-2-82271296 www.chiphope.com.tw	CHIPMAST TEL:886-3-5510850 FAX:886-3-5510860 www.chipmast.com.tw
CHiPLUS TEL:886-3-5637887 FAX:886-3-5637877 www.chiplus.com/tw/	Cion TEL:886-3-6003888 FAX:886-3-6002888 www.cion.com.tw	C-Media TEL:886-2-87731100 FAX:886-2-87732211 www.cmedia.com.tw
CMSC TEL:886-3-5634866 FAX:886-3-5634863 www.cmsc.com.tw	CoAsia TEL:886-2-26557699 FAX:886-2-26557189 www.coasia.com.tw	CTC TEL:886-3-5311161 FAX:886-3-5338403 www.ctcasic.com.tw
CYRUSTEK TEL:886-3-5910216 FAX:886-3-5910217 www.cyrustek.com.tw	DATARiT TEL:886-3-6589597 FAX:886-3-6589902	Davicom TEL:886-3-5798797 FAX:886-3-5646929 www.davicom.com.tw
DenMOS TEL:886-3-5665886 FAX:886-3-5665809 www.denmos.com.tw	DIGIWELL TEL:886-3-5782910 FAX:886-3-5639464 www.digiwell.com.tw	Dorado TEL:886-3-5730608 FAX:886-3-5735136 www.dorado-da.com
E-CMOS TEL:886-3-5785888 FAX:886-3-5783630 www.ecmos.com.tw	E-COM TEL:886-2-22180516 FAX:886-2-22180780 www.eecom.com.tw	EE Solutions TEL:886-3-5678568 FAX:886-3-5678611 www.e2-solutions.com.tw
EETI TEL:886-2-87515191 FAX:886-2-27978808 www.eeti.com	ELAN TEL:886-3-5639977 FAX:886-3-5639966 www.emc.com.tw	ELANSat TEL:886-3-5635105 FAX:886-3-5635107 www.elansat.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.etrон.com
EUTECH TEL:886-3-3164556 FAX:886-3-3164557 www.eutechmicro.com	Evercorp. TEL:886-2-87971106 FAX:886-2-87971107	EverMore TEL:886-3-5642060 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/inde x.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	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	FS-Semi TEL:886-3-5600380 FAX:886-3-5600378

Gemstone TEL:886-2-23886868 FAX:886-2-23882699 www.gemstone.com.tw	Generalplus TEL:886-3-6662118 FAX:886-3-6662117 www.generalplus.com	Genesys Logic TEL:886-2-89131888 FAX:886-2-89131688 www.genesyslogic.com
G-Link TEL:886-3-5526827 FAX:886-3-5525270	Global Unichip Corp. TEL:886-3-5646600 FAX:886-3-5636386 www.globalunichip.com	GMT TEL:886-2-82273608 FAX:886-2-82273606 www.gmt.com.tw
Goyatek TEL:886-3-5631051 FAX:886-3-5631052 www.goya.com.tw	Green Mark TEL:886-2-89132089 FAX:886-2-89132068 www.green-mark.com	Greenergy TEL:886-3-5786363 FAX:886-3-5643838 www.greenergy-ic.com
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www.vishay.com

Zowie

TEL:886-2-22195533
FAX:886-2-22191133
www.zowie.com.tw

Opto-Semiconductor

AOC

TEL:886-3-3803801
FAX:886-3-3803786
www.aocepi.com

COSMO

TEL:886-2-82271877
FAX:886-2-82271855
www.cosmo-ic.com

CS Bright's

TEL:886-2-82211988
FAX:886-2-82211336
www.csbright.com.tw

Everlight

TEL:886-2-26856688
FAX:886-2-26856699
www.everlight.com

EPISTAR

TEL:886-3-5678000
FAX:886-3-5678755
www.epistar.com.tw

King Bright

TEL:886-2-22499224
FAX:886-2-22403981
www.kingbright.com

LEDTECH

TEL:886-2-22186891
FAX:886-2-22182894
www.ledtech.com.tw

Ligitek

TEL:886-2-77036000
FAX:886-2-77036286
www.ligitek.com

Lite-On

TEL:886-2-87982888
FAX:886-2-87982868
www.liteon.com

Opto Tech
TEL:886-3-5638951
FAX:886-3-5783696
www.opto.com.tw

U.O.C
TEL:886-3-4852687
FAX:886-3-4751625
www.uocnet.com

Sinonar
TEL:886-3-5783366
FAX:886-3-5781812
www.sinonar.com.tw

Wistron
TEL:886-3-6662686
FAX:

Tyntek
TEL:886-3-7582997
FAX:886-3-7582908
www.tyntek.com.tw

Design Tools

Avery Design Systems
TEL:886-2-23278766
FAX:886-2-23278763
wwwavery-design.com

Mentor Graphics
TEL:886-3-5131000
FAX:886-3-5734734
www.mentorg.com.tw

Cadence Taiwan
TEL:886-3-5778951
FAX:886-3-5780422
www.cadence.com.tw

Silvaco Taiwan
TEL:886-3-5679686
FAX:886-3-5679682
www.silvaco.com

Incentia
TEL:886-3-5782868
FAX:886-3-5785618
www.incentia.com.tw

Synopsys
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FAX:886-2-27228931
www.synopsys.com