

***Overview on
Taiwan Semiconductor
Industry
(2016 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 2015. 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 70.3% of worldwide IC foundry revenue, 54.2% of worldwide package and testing revenue, and 22.1% 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 2015

Overview of the Year

Taiwan Semiconductor revenue (including design, manufacturing, packaging, and testing) totaled NT\$2,264.0 billion (about US\$71.0B) in 2015, up 2.8 % from 2014, with NT\$592.7 billion (US\$18.6B) in design, a 2.8% increase, NT\$1,230.0 billion (US\$38.6B) in manufacturing, a 4.9% increase NT\$1,009.3B (US\$31.6B) in foundry, up 10.4% and NT\$220.7B (US\$6.9B) in memory, down 14.8%, NT\$309.9 billion (US\$9.7B) in packaging, down 1.9%, and NT\$131.4 billion (US\$4.1B) in testing, down 4.7%. Representing 21.2% of the US\$335.2B worldwide market, Taiwan IC industry was ranked number two, second to the US. (Exchange rate NT\$/US\$ was 31.9.)

Table 1 Major Indices for Taiwan IC Industry

	NT\$B													
	2010	10/09	2011	11/10	2012	12/11	2013	13/12	2014	14/13	2015	15/14	2016(e)	16/15
Industry Revenue	1,769.3	38.3%	1,562.7	-11.7%	1,634.2	4.6%	1,888.6	15.6%	2,203.3	16.7%	2,264.0	2.8%	2,319.1	2.4%
IC Design	454.8	17.9%	385.6	-15.2%	411.5	6.7%	481.1	16.9%	576.3	19.8%	592.7	2.8%	620.2	4.6%
IC Manufacturing	899.7	56.0%	786.7	-12.6%	829.2	5.4%	996.5	20.2%	1,173.1	17.7%	1,230.0	4.9%	1,245.9	1.3%
Foundry	583.0	42.8%	572.9	-1.7%	648.3	13.2%	759.2	17.1%	914.0	20.4%	1,009.3	10.4%	1,074.4	6.5%
Memory	316.7	88.1%	213.8	-32.5%	180.9	-15.4%	237.3	31.2%	259.1	9.2%	220.7	-14.8%	171.5	-22.3%
IC Packaging	287.0	30.6%	269.6	-6.1%	272.0	0.9%	284.4	4.6%	316.0	11.1%	309.9	-1.9%	317.0	2.3%
IC Testing	127.8	32.3%	120.8	-5.5%	121.5	0.6%	126.6	4.2%	137.9	8.9%	131.4	-4.7%	136.0	3.5%
Product Revenue	771.5	39.2%	599.4	-22.3%	592.4	-1.2%	718.4	21.3%	835.4	16.3%	813.4	-2.6%	791.7	-2.7%
WW Growth	-	31.8%	-	0.4%	-	-2.7%	-	4.8%	-	9.9%	-	-0.2%	-	1.7%

Source : TSIA, IEK-ITRI, TSIA (May 2016)

By the end of 2015, 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 lead frames companies, (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.

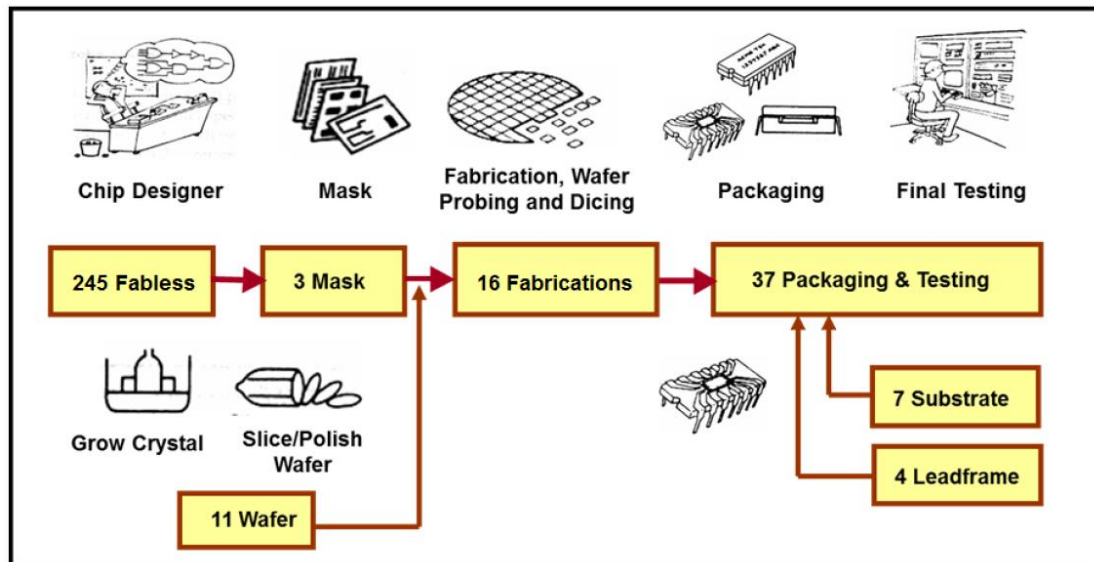


Fig. 1 Unique Infrastructure in Taiwan (2015)

IC Fabless Companies

In 2015, there were 245 design houses in Taiwan (Table 2). Benefited from the growing demand for smart mobile devices in China, Taiwan IC design revenue grew slightly by 2.8% to reach NT\$592.7 billion, which accounted for 20.5% of worldwide IC design market and ranked number 2 worldwide, following the US. Driven by the continuing growth of mobile devices in China and strong demand for SSD-related chips, worldwide market share of Taiwan IC design industry is expected to increase to 21.7% in 2016.

Taiwan IC design companies invested NT\$99.8 billion in R&D in 2015, which represented 16.8% of total fabless revenue. The R&D expense is expected to grow to NT\$101.9 billion in 2016 due to the needs for smaller chip sizes and power saving.

Table 2 Major Indices of Taiwan IC Design Business

	2012	2013	2014	2015	2016(e)
# of Companies	260	250	245	245	240
Revenue(NT\$B)	411.5	481.1	576.3	592.7	627.3
Growth (%)	6.7%	16.9%	19.8%	2.8%	5.8%
WW Market Share	19.7%	20.8%	22.2%	20.5%	21.7%
WW Ranking	2	2	2	2	2
Value Added (NT\$B)	115.6	141.9	166.8	168.2	175.0
Value Added Rate (%)	28.1%	29.5%	28.9%	28.4%	27.9%
R&D Employee (p)	27,518	27,813	29,573	30,277	30,008
R&D Expense (NT\$B)	69.5	77.5	95.1	99.8	101.9
R&D Expense/ Revenue (%)	16.9%	16.1%	16.5%	16.8%	16.2%
Workforce(P)	37,800	39,500	42,000	42,500	41,900
Average revenue per workforce (NT\$M)	10.9	12.2	13.7	13.9	14.9

(e): estimate

Source : IEK-ITRI, TSIA (May 2016)

Table 3 Top 10 Fabless Companies in Taiwan, 2015

NT\$B

2014 Ranking	2015 Ranking	Company	2014 Revenue	2015 Revenue	Growth (%)
1	1	Mediatek	213.1	213.3	0.1%
2	2	Novatek	54.1	50.9	-5.9%
3	3	PHISON	33.1	37.2	12.4%
4	4	Realtek	31.3	31.7	1.3%
5	5	Himax	25.4	21.7	-14.6%
6	6	Richtek	11.9	12.6	5.9%
8	7	Focaltech	9.9	11.5	16.2%
11	8	Silicon Motion	8.7	11.4	31.0%
9	9	ESMT	9.8	9.3	-5.1%
15	10	Sitronix	7.6	9.3	22.4%

Note: 1. Based on companies' combined revenue.

Source : Company Statement; IEK-ITRI, TSIA (May 2016)

Table 3 shows the top 10 Taiwan Fabless Companies in 2015. With 40% market share in 4G chips in China, Mediatek remained at the top thanks to its strength in chips for smart handheld devices. Followed by Novatek, with NT\$50.9 billion in revenue. PHISON Electronic Corps, ranked number 3, revenue grew 12.4% to NT\$37.2 billion. Realtek was fourth, earning NT\$31.7 billion while Himax was fifth, with NT\$21.7 billion in revenue.

IC Fabrication

As of 2015, there were 16 IC wafer fabrication companies in Taiwan, including foundry companies such as TSMC, UMC, Powerchip, Vanguard, Episil, 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) in 2015 grew slightly by 4.9% to reach NT\$1,230.0 billion. The growth is modest as the smart phone market is maturing. Foundry revenue was NT\$1,009.3 billion, a 10.4% rise and representing 70.3% of the worldwide market. However, if the same 2014 exchange rate was applied, Taiwan foundry market share would be 73.8%. Memory revenue was NT\$220.7 billion in 2015, down 14.8% due to DRAM price drop and oversupply.

Table 4 Major Indices of Taiwan IC Fabrication Business

	2012	2013	2014	2015	2016(e)
# of Companies	15	15	16	16	15
Revenue(NT\$B)	829.2	996.5	1,173.1	1,230.0	1,245.9
Growth (%)	5.4%	20.2%	17.7%	4.9%	1.3%
WW Market Share (Foundry)	67.8%	70.3%	71.4%	70.3%	70.9%
WW Ranking (Foundry)	1	1	1	1	1
Value Added (NT\$B)	486.7	585.9	802.5	844.1	857.2
Value Added Rate (%)	58.7%	58.8%	68.4%	68.6%	68.8%
Capital Investment (NT\$B)	377.6	346.8	384.9	386.1	393.1
Capital Investment /Revenue(%)	45.5%	34.8%	32.8%	31.4%	32.5%
R&D Employee (p)	8,473	8,563	8,784	8,907	9,013
R&D Expense (NT\$B)	73.2	86.6	95.4	102.7	104.8
R&D Expense/ Revenue (%)	8.8%	8.7%	8.1%	8.3%	8.4%
Workforce(P)	83,526	83,854	85,674	87,559	89,135
Average revenue per workforce (NT\$M)	9.9	11.9	13.7	14.0	14.0

Source : IEK-ITRI, TSIA (May 2016)

Overall, Taiwan IC manufacturing companies increased 0.3% in capital investment (mostly from foundry companies) compared to 2014 to reach NT\$386.1 billion. The investment was largely in the additions of fabs and capacity expansion in advanced production process. The R&D spending in 2015 was NT\$102.7 billion and accounted for 8.3% of total Taiwan IC manufacturing revenue.

Table 5 Top 10 Fabrication Companies in Taiwan, 2015

NT\$B

2014 Ranking	2015 Ranking	Company	2014 Revenue	2015 Revenue	Growth (%)
1	1	TSMC	762.8	843.5	10.6%
2	2	UMC	140.0	144.8	3.4%
3	3	Inotera	82.6	60.8	-26.4%
4	4	Nanya	49.1	43.9	-10.6%
5	5	Powerchip	40.1	41.1	2.5%
6	6	Winbond	38.0	38.3	0.8%
7	7	Vanguard	23.9	23.3	-2.5%
8	8	MXIC	22.4	20.9	-6.7%
10	9	Win Semiconductors	9.9	12.0	21.2%
9	10	Lite-On	10.2	9.4	-7.8%
-	-	Total	1,179.0	1,238.0	-

Source : Company Statement, IEK-ITRI, TSIA (May 2016)

TSMC remained the top IC manufacturing company in Taiwan in 2015, with NT\$843.5 billion in revenue, up 10.6% from 2014 (20% from 16nm and 20nm). UMC remained number two, with revenue increased by 3.4% to reach NT\$144.8 billion (10% from 28nm). Powerchip, redirected from DRAM to foundry business in 2013, enjoyed revenue growth of 2.5% in 2015, ranked number 5. Overall, revenues of Taiwan DRAM companies declined due to the impact of worldwide DRAM market deterioration.

IC Packaging & Testing

Taiwan IC packaging and testing revenue reached NT\$441.3 billion (including domestic and overseas sales) in 2015, representing 54.19% of worldwide packaging and testing revenue and ranked number one worldwide, followed by the US and China. Total capital investment reached NT\$85.7 billion in 2015 and is expected to increase to NT\$89.2 billion in 2016.

Table 6 Major Indices of Taiwan Packaging and Testing Industry

NT\$B

	2012	2013	2014	2015	2016(e)
# of Companies	37	37	37	37	37
Revenue (NT\$B)	393.5	411.0	453.9	441.3	450.0
Growth (%)	0.8%	4.4%	10.4%	-2.8%	2.0%
WW Market Share	55.3%	55.2%	55.9%	54.2%	56.9%
WW Ranking	1	1	1	1	1
Value-Added (NT\$B)	192.0	201.0	222.9	200.8	216.1
Value-Added Rate (%)	48.8%	48.9%	49.1%	45.5%	47.7%
Capital Investment (NT\$B)	88.8	87.2	95.3	85.7	89.2
Capital Investment/ Revenue (%)	22.6%	20.3%	21.0%	19.4%	19.8%
R&D Employee (p)	3,870	4,000	4,060	4,250	4,340
R&D Expense (NT\$B)	13.0	14.6	15.4	16.2	16.6
R&D Expense/Revenue(%)	3.3%	3.4%	3.4%	3.6%	3.7%
Workforce (p)	92,000	93,700	94,000	95,100	97,000
Average revenue per workforce (NT\$M)	4.3	4.6	4.8	4.6	4.6

Source : IEK-ITRI, TSIA (May 2016)

Table 7 Top 10 IC Packaging and Testing Companies

NT\$B

2014	2015	Company	2014 Revenue	2015 Revenue	Growth (%)
1	1	ASE*	150.8	145.1	-3.8%
2	2	SPIL	83.1	82.8	-0.4%
3	3	PTI**	40.0	42.5	6.25%
4	4	Chipmos	22.0	19.9	-9.5%
6	5	KYEC	16.3	17.1	4.9%
5	6	Chipbond	17.7	16.9	-4.5%
7	7	OSE	13.8	16.1	16.7%
8	8	FATC	10.7	8.8	-18.1%
9	9	Walton	10.0	7.9	-21%
10	10	Tong Hsing	8.3	7.8	-6.0%

* ASE: USI revenue excluded;

** PTI: Greatek revenue included

Source : Company Statement; IEK-ITRI, TSIA (May 2016)

Table 7 shows the top 10 Taiwan packaging and testing companies in 2015. Total revenue of top 5 companies comprised 69.7% of total Taiwan packaging and testing revenue and that of top 10 comprised 82.7%. 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 2015.

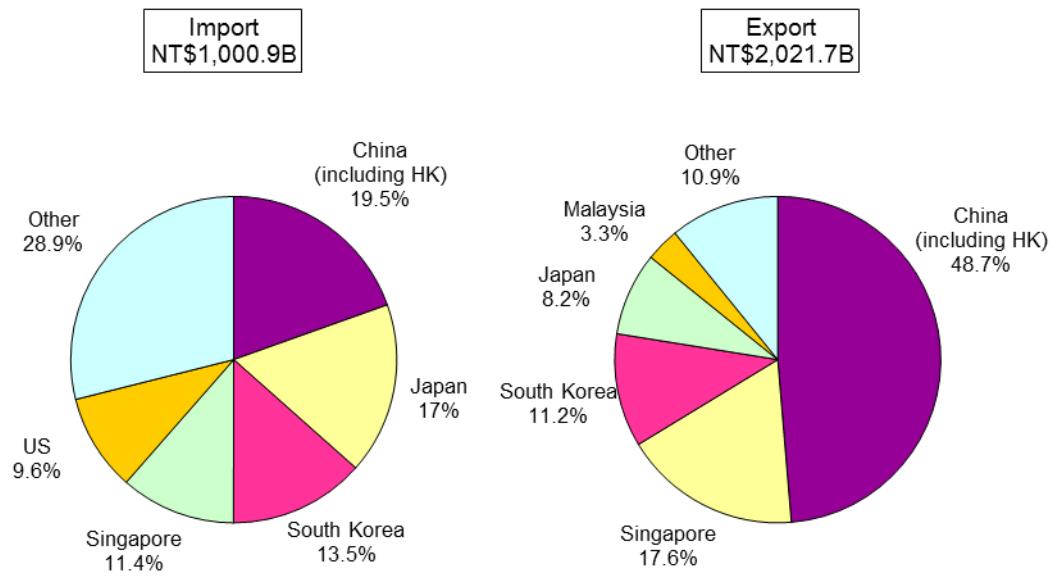
III. Taiwan IC Market

In 2015, imported ICs decreased 2.3% to NT\$1,000.9 billion (NT\$1,024.8B in 2014) and exported ICs increased 1.2% to NT\$2,021.7 billion (NT\$1,997.5B in 2013). Major import countries of Taiwan in 2015 were China (including HK) (19.5%), Japan (17%), South Korea (13.5%), Singapore (11.4%), and US (9.6%). Major export countries of Taiwan were China (including HK) (48.7%), Singapore (17.6%), South Korea (11.2%), Japan (8.2%), and Malaysia (3.3%). Surplus was NT\$1.020.8 billion in 2015, up 4.9% on-year and is expected to increase 8.2% to reach NT\$1,104.3 billion in 2016.



Source : Taiwan Customs ; IEK-ITRI, TSIA (May 2016)

Figure 2 Import/Export Value of Taiwan IC Market



Source : Taiwan Customs ; IEK-ITRI, TSIA (May 2016)

Figure 3 Major Import/Export Regions of Taiwan IC Market

IV. Outlook

2016 Taiwan IC revenue is expected to reach NT\$2,286.9 billion, up 1.0% from 2015, with NT\$627.3 billion (US\$19.7B) in design, a 5.8% increase; NT\$1,209.6 billion (US\$37.9B) in manufacturing, a 1.7% decrease (NT\$1,054.4 billion (US\$33.1B) in foundry, up 4.5%, and NT\$155.2 billion (US\$4.9B) in memory, down 29.7%), NT\$315.0 billion (US\$9.9B) in packaging, up 1.6%, and NT\$135.0 billion (US\$4.2B) in testing, up 2.7%. (Exchange rate NT\$/US\$ is 31.9.)

Table 8 Major Indices of Taiwan IC Industry

NT\$B	16Q1	16Q1 /15Q4	16Q1 /15Q1	16Q2(e)	16Q2 /16Q1	16Q2 /15Q2	16Q3(e)	16Q3 /16Q2	16Q3 /15Q3	16Q4(e)	16Q4 /16Q3	16Q4 /15Q4	2016(e)	16/15
Industry Revenue	544.1	-3.4%	-4.6%	570.5	4.9%	2.6%	590.5	3.5%	2.8%	581.8	-1.5%	3.3%	2,286.9	1.0%
IC Design	145.2	-9.7%	6.8%	152.6	5.1%	9.2%	168.5	10.4%	7.9%	161.0	-4.5%	0.1%	627.3	5.8%
IC Manufacturing	295.4	0.9%	-9.4%	308.4	4.4%	1.0%	306.0	-0.8%	0.0%	299.8	-2.0%	2.4%	1,209.6	-1.7%
Foundry	249.1	2.5%	-5.9%	263.9	5.9%	5.9%	272.3	3.2%	7.9%	269.1	-1.2%	10.7%	1,054.4	4.5%
Brand Name	46.3	-7.0%	-24.2%	44.5	-3.9%	-21.0%	33.7	-24.3%	-37.0%	30.7	-8.9%	-38.4%	155.2	-29.7%
IC Packaging	73.0	-4.8%	-4.8%	77.0	5.5%	-1.0%	81.0	5.2%	2.9%	84.0	3.7%	9.5%	315.0	1.6%
IC Testing	305	-7.3%	-4.7%	32.5	6.6%	-1.5%	35.0	7.7%	4.5%	37.0	5.7%	12.5%	135.0	2.7%
Product Revenue	191.5	-9.1%	-2.8%	197.1	2.9%	0.6%	202.2	2.6%	-3.6%	191.7	-5.2%	-9.0%	782.5	-3.8%
WW Growth (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3%

NT\$B	2011	11/10	2012	12/11	2013	13/12	2014	14/13	2015	15/14	2016(e)	16/15
Industry Revenue	1,562.7	-11.7%	1,634.2	4.6%	1,888.6	15.6%	2,203.3	16.7%	2,264.0	2.8%	2,286.9	1.0%
IC Design	385.6	-15.2%	411.5	6.7%	481.1	16.9%	576.3	19.8%	592.7	2.8%	627.3	5.8%
IC Manufacturing	786.7	-12.6%	829.2	5.4%	996.5	20.2%	1,173.1	17.7%	1,230.0	4.9%	1,209.6	-1.7%
Foundry	572.9	-1.7%	648.3	13.2%	759.2	17.1%	914.0	20.4%	1,009.3	10.4%	1,054.4	4.5%
Brand Name	213.8	-32.5%	180.9	-15.4%	237.3	31.2%	259.1	9.2%	220.7	-14.8%	155.2	-29.7%
IC Packaging	269.6	-6.1%	272.0	0.9%	284.4	4.6%	316.0	11.1%	309.9	-1.9%	315.0	1.6%
IC Testing	120.8	-5.5%	121.5	0.6%	126.6	4.2%	137.9	8.9%	131.4	-4.7%	135.0	2.7%
Product Revenue	599.4	-22.3%	592.4	-1.2%	718.4	21.3%	835.4	16.3%	813.4	-2.6%	782.5	-3.8%
WW Growth (%)	-	0.4%	-	-2.7%	-	4.8%	-	9.9%	-	-0.2%	-	0.3%

(e): estimate

Source : TSIA, IEK-ITRI (May 2016)

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

AP Memory

TEL: 886-3-5601558

FAX: 886-3-5601518

www.apmemory.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

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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

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FAX:886-3-5520420

www.twepc.com.tw

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FAX:886-7-8159456

www.ticp.com.tw

TMC

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FAX:886-3-5979406

www.tmc.com.tw

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FAX:886-2-26791211

www.theil.com

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FAX:886-3-6667115

www.viseratech.com

Walton

TEL:886-7-8111330

FAX:886-7-8114732

www.walton.com.tw

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TEL:886-3-4331818

FAX:886-3-4331515

www.xintec.com.tw

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FAX:886-3-5976565

www.adleng.com

Ardentec

TEL:886-3-5976688

FAX:886-3-5971397

www.ardentec.com

ASE

TEL:886-7-3617131

FAX:886-7-3613094

www.aseglobal.com

ASE Test

TEL:886-7-3636641

FAX:886-7-3636663

www.aseglobal.com

CET

TEL:886-2-2223315

FAX:886-2-2227458

www.cetsemi.com

Chant World

TEL:886-7-3634567

FAX:886-7-3657789

www.cwti.com.tw

ChipMOS

TEL:886-3-5770055

FAX:886-3-5668989

www.chipmos.com

Etrend

TEL:886-3-5544308

FAX:886-3-5544312

www.etrendtech.com.tw

Eutrend Technology

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FAX:886-3-5633347

FATC

TEL:886-5-5574095

FAX:886-5-5574105

www.fatc.com.tw

Giga Solution

TEL:886-3-6116168

FAX:886-3-5630100

www.giga-solution.com

Global Test

TEL:886-3-5987168

FAX:886-3-5981826

www.gttw.com.tw

Greatek

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FAX:886-37-612722

www.greatek.com.tw

ITS

TEL:886-3-5637388

FAX:886-3-5779798

www.itsturnkey.com

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TEL:886-3-5751888

FAX:886-3-5753866

www.kyec.com.tw

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www.kingpak.com.tw

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www.lingsen.com.tw

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www.nanotechsemi.com.tw

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TEL:886-7-3613131

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www.ose.com.tw

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FAX:886-3-5986024

www.panther.com.tw

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FAX:886-3-5973805

www.pti.com.tw

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FAX:886-3-5824106

www.signality.com.tw

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TEL:886-3-5959213

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www.sigurd.com.tw

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TEL:886-4-25341525

FAX:886-4-25342025

www.spil.com.tw

TeraPower

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FAX:886-3-5972723

www.terapower.com.tw

tsi

TEL:886-3-5970670

FAX:886-3-5970671

www.testserv.com.tw

TMC

TEL:886-3-5979402

FAX:886-3-5979406

www.tmc.com.tw

True Test

TEL:886-3-5973838

FAX:886-3-5973737

www.truetest.com.tw

VATE

TEL:886-3-5770345

FAX:886-3-5794379

www.vate.com.tw

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TEL:886-3-6668788

FAX:886-3-6667115

www.viseratech.com

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FAX:886-7-8114732

www.walton.com.tw

YTEC

TEL:886-3-6669968

FAX:886-3-6669967

www.ytec.com.tw

Silicon Wafer**EPISIL**

TEL:886-3-5779245

FAX:886-3-5774804

www.tech.episil.com

FST

TEL:886-5-6816950

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www.fstech.com.tw

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TEL:886-4-23588966

FAX:886-4-23588968

www.niching.com.tw

Precision

TEL:886-3-5632255

FAX:886-3-5632148

www.epi.episil.com

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TEL:886-3-5641888

FAX:886-3-5670888

www.psi.com.tw

SCSC

TEL:886-3-3852130

FAX:886-3-3852120

www.sanchih.com.tw

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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**

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FAX:886-3-5781706

www.saswafer.com**SunEdison**

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FAX:886-3-5790294

www.sunedisonsilicon.com**Waferworks**

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FAX:886-3-4815002

www.waferworks.com

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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

www.tmcnet.com.tw

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www.liteon-semi.com**Mospec**

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www.mospec.com.tw**Prosperity**

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www.rectron.com.tw**Taiwan Semiconductor**

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www.ts.com.tw**Vishay**

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www.vishay.com**Zowie**

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www.zowie.com.tw

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www.aocepi.com

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www.cosmo-ic.com

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www.csbright.com.tw

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www.everlight.com

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www.harvatek.com.tw

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www.hw.com.tw

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www.ledtech.com.tw

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www.ligitek.com

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www.liteon.com

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www.tyntek.com.tw

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www.uocnet.com

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