

***Overview on
Taiwan Semiconductor
Industry
(2017 Edition)***



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Table of Contents

I.	Preface-----	3
II.	Taiwan Semiconductor Industry in 2016 -----	4
	IC Design -----	6
	IC Manufacturing -----	8
	IC Packaging and Testing-----	10
III.	Taiwan IC Market -----	12
IV.	Outlook -----	14
V.	Directory of Taiwan Semiconductor companies--	16

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 2016. 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 70.7% of worldwide IC foundry revenue, 55.5% of worldwide package and testing revenue, and 19.4% 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 2016

Overview of the Year

Taiwan Semiconductor revenue (including design, manufacturing, packaging, and testing) totaled NT\$2,449.3.0 billion (about US\$75.8B) in 2016, up 8.2 % from 2015, with NT\$653.1 billion (US\$20.2B) in design, a 10.2% increase, NT\$1,332.4 billion (US\$41.3B) in manufacturing, an 8.3% increase (NT\$1,148.7B (US\$35.6B) in foundry, up 13.8% and NT\$183.7B (US\$5.7B) in memory, down 16.8%, NT\$323.8 billion (US\$10.0B) in packaging, a 4.5% increase, and NT\$140.0 billion (US\$4.3B) in testing, a 6.5% growth from 2015. (Exchange rate NT\$/US\$ was 32.3.)

Table 1 Major Indices for Taiwan IC Industry

	NT\$B											
	2011	11/10	2012	12/11	2013	13/12	2014	14/13	2015	15/14	2016	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%	2,449.3	8.2%
IC Design	385.6	-15.2%	411.5	6.7%	481.1	16.9%	576.3	19.8%	592.7	2.8%	653.1	10.2%
IC Manufacturing	786.7	-12.6%	829.2	5.4%	996.5	20.2%	1,173.1	17.7%	1,230.0	4.9%	1,332.4	8.3%
Foundry	572.9	-1.7%	648.3	13.2%	759.2	17.1%	914.0	20.4%	1,009.3	10.4%	1,148.7	13.8%
Memory	213.8	-32.5%	180.9	-15.4%	237.3	31.2%	259.1	9.2%	220.7	-14.8%	183.7	-16.8%
IC Packaging	269.6	-6.1%	272.0	0.9%	284.4	4.6%	316.0	11.1%	309.9	-1.9%	323.8	4.5%
IC Testing	120.8	-5.5%	121.5	0.6%	126.6	4.2%	137.9	8.9%	131.4	-4.7%	140.0	6.5%
Product Revenue	599.4	-22.3%	592.4	-1.2%	718.4	21.3%	835.4	16.3%	813.4	-2.6%	836.8	2.9%
WW Growth	-	0.4%	-	-2.7%	-	4.8%	-	9.9%	-	-0.2%	-	1.1%

Source : TSIA, IEK-ITRI (May 2017)

Note:

- IC Industry Revenue = IC design + Manufacturing + Packaging + Testing
- IC Production Revenue = IC Design + Memory (Brand name products, mostly Memory products)
- IC Manufacturing Revenue = Foundry + Memory (Brand name products, mostly Memory products)

By the end of 2016, Taiwan Semiconductor industry consisted of 240 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).

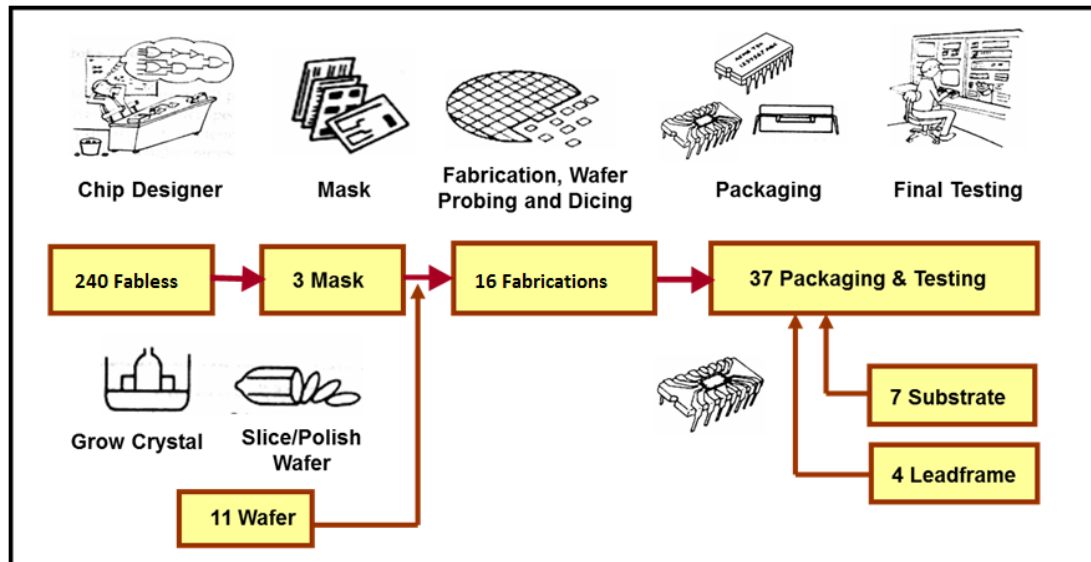


Fig. 1 Unique Infrastructure in Taiwan (2017)

IC Fabless Companies

In 2016, there were 240 design houses in Taiwan (Table 2). Benefitting from the growing demand for smart mobile devices in China, Taiwan IC design revenue grew by 10.2% to reach NT\$653.1 billion, which accounted for 19.4% of worldwide IC design market and ranked number 2 worldwide, following the US.

Taiwan IC design companies invested NT\$109.0 billion in R&D in 2016, which represented 16.7% of total Taiwan fabless revenue. The R&D expense is expected to increase to NT\$110.5 billion in 2017.

Table 2 Major Indices of Taiwan IC Design Business

	2013	2014	2015	2016	2017(e)
# of Companies	250	245	245	240	238
Revenue(NT\$B)	481.1	576.3	592.7	653.1	653.8
Growth (%)	16.9%	19.8%	2.8%	10.2%	0.1%
WW Market Share	20.8%	22.2%	20.5%	19.4%	19.0%
WW Ranking	2	2	2	2	2
Value Added (NT\$B)	141.9	179.0	168.2	174.5	181.1
Value Added Rate (%)	29.5%	31.1%	28.4%	26.7%	26.3%
R&D Employee (p)	27,813	29,573	30,277	29,887	30,005
R&D Expense (NT\$B)	77.5	95.1	99.8	109.0	110.5
R&D Expense/ Revenue (%)	16.1%	16.5%	16.8%	16.7%	16.9%
Workforce(P)	39,500	42,000	42,500	42,000	42,200
Average revenue per workforce (NT\$M)	12.2	13.7	13.9	15.6	15.5

Note: (e) stands for estimate

Source : TSIA, IEK-ITRI (May 2017)

Table 3 Top 10 Fabless Companies in Taiwan, 2016

NT\$B

2015 Ranking	2016 Ranking	Company	2015 Revenue	2016 Revenue	Growth(%)
1	1	Mediatek	213.3	275.5	29%
2	2	Novatek	50.9	45.7	-10%
3	3	PHISON	37.2	43.8	18%
4	4	Realtek	31.7	38.9	23%
5	5	Himax	21.9	25.9	18%
8	6	Silicon Motion	11.4	17.9	57%
7	7	Focaltech	11.5	11.0	-4%
10	8	Sitronix	9.3	10.2	10%
9	9	ESMT	9.3	9.3	0%
12	10	Global Unichip	7.8	9.3	20%

Note: Based on companies' combined revenue.

Source : Company Statement; TSIA, IEK-ITRI (May 2017)

Table 3 shows the top 10 Taiwan Fabless Companies in 2016. Mediatek remained at the top thanks to its strength in chips and platforms for smart handheld devices. Mediatek generated a revenue of NT\$275.5B in 2016, a growth of 29% from 2015, and accounted for 42% of Taiwan's IC Design revenue. Among the top 10 companies, revenues of display-related companies were mixed and SSD-related companies were out-performers.

IC Fabrication

As of 2016, 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 2016 grew by 8.3% to reach NT\$1,332.4 billion thanks to a higher than expected market demand and a strong memory market. Foundry revenue was NT\$1,148.7 billion, a 13.8% rise. Foundry revenue in 2017 is expected to increase by 8.5% due to the continued development of advanced process technology and capacity demand for 8 inch wafers. Although an overall strong memory market globally in 2016, the exclusion of revenue from Inotera, due to its merge with Micron, is expected to deteriorate the overall Taiwan DRAM revenue in 2017. The projected total revenue of Taiwan memory products in 2017 is NT\$145.0 billion, a 21.1% decrease from 2016.

In 2016, capital expense of Taiwan's IC Manufacturing companies was NT\$466.0 billion, which accounted for 35% of total Taiwan manufacturing revenue and a 3.1% increase from the year before. R&D expense increased to NT\$135.4 billion, which accounted for 10.2% of total manufacturing revenue, up 1.8% from 2015.

Table 4 Major Indices of Taiwan IC Fabrication Business

	2013	2014	2015	2016	2017(e)
# of Companies	15	16	16	16	15
Revenue(NT\$B)	996.5	1,173.1	1,230.0	1,332.4	1,391.7
Growth (%)	20.2%	17.7%	4.9%	8.3%	4.5%
WW Market Share (Foundry)	70.3%	71.40%	70.30%	70.7%	70.0%
WW Ranking (Foundry)	1	1	1	1	1
Value Added (NT\$B)	585.9	802.5	844.1	888.4	938.9
Value Added Rate (%)	58.8%	68.4%	68.6%	66.7%	67.2%
Capital Investment (NT\$B)	346.8	384.9	392.6	466.0	439.4
Capital Investment /Revenue(%)	34.8%	32.8%	31.9%	35.0%	31.6%
R&D Employee (p)	8,563	8,784	8,907	9,131	9,200
R&D Expense (NT\$B)	86.6	95.4	102.7	135.4	140.0
R&D Expense/ Revenue (%)	8.7%	8.1%	8.3%	10.2%	10.1%
Workforce(P)	83,854	85,674	87,559	88,960	85,939
Average revenue per workforce (NT\$M)	11.9	13.7	14.0	15.0	16.2

Source : TSIA, IEK-ITRI (May 2017)

TSMC remained the top IC manufacturing company in Taiwan in 2016, with NT\$947.9 billion in revenue, up 12.4% from 2015. UMC remained number two, with revenue increased by 2.1% to reach NT\$147.9 billion.

Table 5 Top 10 Fabrication Companies in Taiwan, 2015

NT\$B

2015	2016	Company	2015	2016	Growth(%)
1	1	TSMC	843.5	947.9	12.4%
2	2	UMC	144.8	147.9	2.1%
6	3	Winbond	38.4	42.1	9.8%
5	4	Powerchip	41.1	41.8	1.7%
4	5	Nanya	43.9	41.6	-5.1%
7	6	Vanguard	23.3	25.8	10.7%
8	7	MXIC	20.9	24.1	15.3%
9	8	Win Semiconductors	12.0	13.6	13.3%
10	9	Lite-On	9.4	10.5	11.5%
-	10	Nuvoton	7.3	8.3	13.7%

Source : Company Statement, TSIA, IEK-ITRI (May 2017)

IC Packaging & Testing

As of 2016, there were 37 packaging and testing companies in Taiwan. Revenue reached NT\$489.5 billion, which represented 55.5% of worldwide packaging and testing revenue and ranked number one worldwide, followed by the United States and China.

Table 6 Major Indices of Taiwan Packaging and Testing Industry

NT\$B

	2013	2014	2015	2016	2017(e)
# of Companies	37	37	37	37	37
Revenue (NT\$B)	411.0	453.9	441.3	463.8	489.5
Growth (%)	4.4%	10.4%	-2.8%	5.1%	5.5%
WW Market Share	55.2%	55.9%	54.19%	55.5%	55.5%
WW Ranking	1	1	1	1	1
Value-Added (NT\$B)	201.0	222.9	200.8	223.1	246.2
Value-Added Rate (%)	48.9%	49.1%	45.5%	48.1%	50.3%
Capital Investment (NT\$B)	87.2	95.3	85.7	95.0	105.0
Capital Investment/ Revenue (%)	20.3%	21.0%	19.4%	20.5%	21.5%
R&D Employee (p)	4,000	4,060	4,250	42,00	4,120
R&D Expense (NT\$B)	14.6	15.4	16.2	15.2	14.5
R&D Expense/Revenue(%)	3.4%	3.4%	3.6%	3.3%	3.0%
Workforce (p)	93,700	94,000	95,100	97,200	988,00
Average revenue per workforce (NT\$M)	4.6	4.8	4.6	4.8	5.0

Source : TSIA, IEK-ITRI (May 2017)

Table 7 Top 10 IC Packaging and Testing Companies

NT\$B

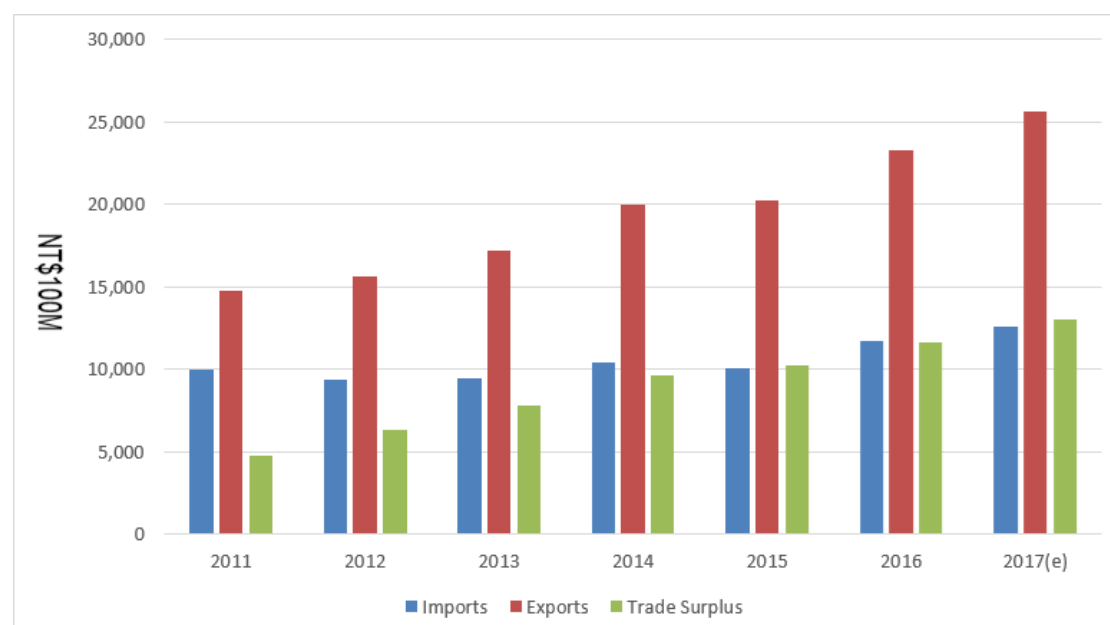
2015 Rank	2016 Rank	Company	2015 Revenue	2016 Revenue	Growth(%)
1	1	ASE	145.1	152.3	5.0%
2	2	SPIL	82.8	85.1	2.8%
3	3	PTI	42.5	48.3	13.6%
5	4	KYEC	17.1	20.1	17.5%
4	5	Chipmos	19.9	19.4	-2.5%
6	6	Chipbond	16.9	17.3	2.4%
7	7	OSE	16.1	15.8	-1.9%
9	8	Walton	7.9	8.7	10.1%
8	9	FATC	8.8	8.5	-3.4%
10	10	Tong Hsing	7.8	8.1	3.8%

Source : Company Statement; TSIA, IEK-ITRI (May 2017)

Table 7 shows the top 10 Taiwan packaging and testing companies in 2016. Total revenue of top 5 (ASE, SPIL, PTI, KYEC, and Chipmos) companies comprised 70.1% of total Taiwan packaging and testing revenue and revenue of top 10 comprised 83.8%, demonstrating the dominance of the top companies in the industry.

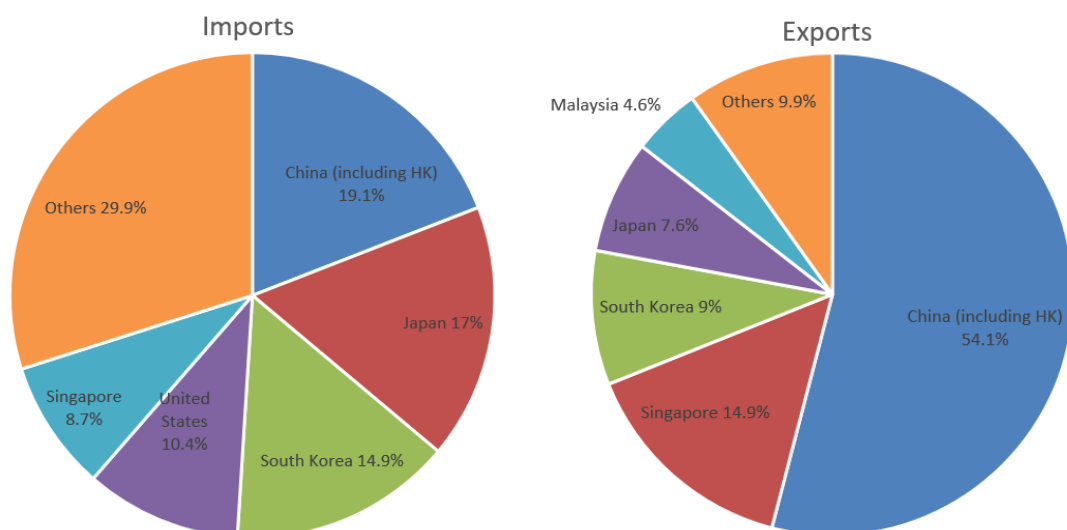
III. Taiwan IC Market

In 2016, imported ICs increased 16.5% to NT\$1,166.2 billion (NT\$1,000.9 in 2015) and exported ICs increased 15.2% to NT\$2,328.8 billion (NT\$2,021.7B in 2015). Major import countries of Taiwan in 2016 were China (including HK), South Korea, Japan, Singapore, and the United States. Major export countries of Taiwan were China (including HK), Singapore, South Korea, Japan, and Malaysia. Surplus was NT\$1.162.5 billion in 2016, up 13.9% on-year and is expected to increase 12.0% to reach NT\$1,302.1 billion in 2017.



Source : Taiwan Customs ; TSIA, IEK-ITRI (May 2017)

Figure 2 Import/Export Value of Taiwan IC Market



Source : Taiwan Customs ; TSIA, IEK-ITRI (May 2017)

Figure 3 Major Import/Export Regions of Taiwan IC Market

In 2016, Taiwan imported the most from China (including HK) (19.1%) followed by Japan (17.0%), South Korea (14.9%), the United States (10.4%), and Singapore (8.7%).

In terms of exports in 2016, Taiwan exported the most to China (including HK) with 54.1%, followed by Singapore (14.9%), South Korea (9.0%), Japan (7.6%) and Malaysia (4.6%).

IV. Outlook

Taiwan Semiconductor revenue (including design, manufacturing, packaging, and testing) is expected to reach NT\$2,535.0 billion (about US\$81.3B) in 2017, up 3.5 % from 2016, with NT\$653.8 billion (US\$21.0B) in design, a 0.1% increase, NT\$1,391.7 billion (US\$44.6B) in manufacturing, a 4.5% increase (NT\$1,246.7B (US\$40.0B) in foundry, up 8.5% and NT\$145.0B (US\$4.6B) in memory, down 21.1%), NT\$338.2 billion (US\$10.8B) in packaging, a 4.4% increase, and NT\$151.3 billion (US\$4.8B) in testing, an 8.1% growth. (Exchange rate NT\$/US\$ was 31.2.)

Table 8 Major Indices of Taiwan IC Industry, 2017

NT\$B	17Q1	17Q1/ 16Q4	17Q1/ 16Q1	17Q2(e)	17Q2/ 17Q1	17Q2/ 16Q2	17Q3(e)	17Q3/ 17Q2	17Q3/ 16Q3	17Q4(e)	17Q4/ 17Q3	17Q4/ 16Q4	2017(e)	17/16
Industry Revenue	571.4	-11.3%	5.0%	573.9	0.4%	-4.6%	696.3	21.3%	5.6%	693.4	-0.4%	7.6%	2,535.0	3.5%
IC Design	139.8	-12.5%	-3.7%	154.0	10.2%	-9.3%	181.0	17.5%	1.5%	179.0	-1.1%	12.0%	653.8	0.1%
IC Manufacturing	320.8	-11.0%	8.6%	300.4	-6.4%	-5.4%	385.3	28.3%	7.4%	385.2	0.0%	6.8%	1,391.7	4.5%
Foundry	284.9	-9.2%	14.4%	264.1	-7.3%	-3.5%	348.7	32.0%	11.7%	349.0	0.1%	11.2%	1,246.7	8.5%
Memory	35.9	-23.3%	-22.5%	36.3	1.1%	-17.7%	36.6	0.8%	-21.3%	36.2	-1.1%	-22.6%	145.0	-21.1%
IC Packaging	77.0	-10.3%	5.5%	83.0	7.8%	3.8%	89.0	7.2%	4.7%	89.2	0.2%	4.0%	338.2	4.4%
IC Testing	33.8	-11.1%	10.8%	36.5	8.0%	7.4%	41.0	12.3%	9.3%	40.0	-2.4%	5.3%	151.3	8.1%
Product Revenue	175.7	-15.0%	-8.3%	190.3	8.3%	-11.0%	217.6	14.3%	-3.2%	215.2	-1.1%	4.2%	798.8	-4.5%
WW Growth (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5%

(e): estimate

Source : TSIA, IEK-ITRI (May 2017)

Note:

- IC Industry Revenue = IC design + Manufacturing + Packaging + Testing
- IC Production Revenue = IC Design + Memory (Brand name products, mostly Memory products)
- IC Manufacturing Revenue = Foundry + Memory (Brand name products, mostly Memory products)
- Revenue of Inotera, which became a subsidiary of Micron, was excluded from 2017 Taiwan Memory revenue

Table 9 Major Indices of Taiwan IC Industry, 2012-2017

NT\$B	2012	12/11	2013	13/12	2014	14/13	2015	15/14	2016	16/15	2017(e)	17/16
Industry Revenue	1,634.2	4.6%	1,888.6	15.6%	2,203.3	16.7%	2,264.0	2.8%	2,449.3	8.2%	2,535.0	3.5%
IC Design	411.5	6.7%	481.1	16.9%	576.3	19.8%	592.7	2.8%	653.1	10.2%	653.8	0.1%
IC Manufacturing	829.2	5.4%	996.5	20.2%	1,173.1	17.7%	1,230.0	4.9%	1,332.4	8.3%	1,391.7	4.5%
Foundry	648.3	13.2%	759.2	17.1%	914.0	20.4%	1,009.3	10.4%	1,148.7	13.8%	1,246.7	8.5%
Brand Name	180.9	-15.4%	237.3	31.2%	259.1	9.2%	220.7	-14.8%	183.7	-16.8%	145.0	-21.1%
IC Packaging	272.0	0.9%	284.4	4.6%	316.0	11.1%	309.9	-1.9%	323.8	4.5%	338.2	4.4%
IC Testing	121.5	0.6%	126.6	4.2%	137.9	8.9%	131.4	-4.7%	140.0	6.5%	151.3	8.1%
Product Revenue	592.4	-1.2%	718.4	21.3%	835.4	16.3%	813.4	-2.6%	836.8	2.9%	798.8	-4.5%
WW Growth (%)	-	-2.7%	-	4.8%	-	9.9%	-	-0.2%	-	1.1%	-	6.5%

(e): estimate

Source : TSIA, IEK-ITRI (May 2017)

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:886-3-5785818

FAX:886-3-5785819

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

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

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
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