Company Update



 Technology
 Last Close
 Target Price
 Upside
 20 April 2018

 HK\$19.16
 HK\$23.00
 +20%

Hua Hong Semiconductor (1347 HK)

One of the best semis plays in China; reiterate Buy

- TTE export ban renews focus on China semis: With the US Department of Commerce activating the export ban on ZTE (763 HK/Sell) earlier this week, the market is expecting a bigger push in China to create a self-sufficient semiconductor industry. We believe the push to drive the fabless industry competitiveness should be the focus, and expect the 2nd phase of China IC Fund (as reported by media) to shift its focus toward the fabless segment, as the 1st phase put greater emphasis on capacity expansion (foundry and memory).
- We see Hua Hong as one of the best semis plays in China: We reiterate our positive view on Hua Hong given that: (1) it is a major beneficiary of China's semis growth (55% of revenue from China fabless); (2) its new capacity in Wuxi (to ramp up in late 2019) will unlock longer-term growth potential; (3) 8" demand outlook is solid with drivers such as smart cards, MCU and PMIC; (4) valuation is attractive; and (5) it has a healthy balance sheet with stable dividends. Compared to both HK-listed and A-share listed semis names, we believe it is one of the most preferred and less volatile given its stable earnings and prudent approach to growth.
- TSMC guidance suggests near-term softness for foundry sector. TSMC (2330 TT) reported 1Q18 results yesterday and guided for 2Q18 revenue to fall 7-8% QoQ citing smartphone weakness and uncertainty over crypto-currency demand (ASIC and GPU). It also lowered its full-year revenue growth estimate to 10% YoY (vs. previous 10-15%). While China smartphone sector is gradually picking up after softness since 4Q17, TSMC cited weakness in the high-end segment (which we believe is Apple related). We believe foundries with 28nm exposure should give subseasonal guidance in 2Q18, while 8" foundries (incl. Hua Hong) should be solid as demand remains healthy.
- O Valuation remains attractive; reiterate Buy: While the company's shares rallied 25% over the past two days, valuation remains attractive with shares trading at 1.5x 2018E P/B. On a P/B to ROE basis, we still see its valuation as attractive vs. regional peers, despite having an additional China semis growth driver. We continue to prefer Hua Hong over SMIC (981 HK/Neutral) due to healthier earnings outlook. Our unchanged TP of HK\$23 is based on 1.5x 2020E P/B. Reiterate Buy.

Financial highlights

Y/E 31 Dec	2016	2017	2018E	2019E	2020E
Revenue (US\$ m)	721	808	893	999	1,222
YoY growth (%)	11	12	11	12	22
Net profit (US\$ m)	129	145	168	187	224
EPS (US cents)	12.42	13.91	13.04	14.50	17.38
YoY growth (%)	14	12	-6	11	20
P/E (x)	19.7	17.6	18.8	16.9	14.1
BVPS (US\$)	1.4	1.6	1.7	1.8	1.9
P/B (x)	1.7	1.5	1.5	1.4	1.3
Dividend yield (%)	1.4	1.5	1.4	1.6	1.8

Source: Company data, BOCOM Int'l estimates

Stock Rating

BUY

1-year stock performance



Source: Bloomberg

Stock data

19.82
19.02
9.92
19,918.88
5.84
15.56
13.45

Source: Bloomberg

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Figure 1: Hua Hong (1347 HK) quarterly earnings forecasts

(US\$ m)	1Q17	2Q17	3Q17	4Q17	1Q18E	2Q18E	3Q18E	4Q18E	1Q19E	2Q19E	3Q19E	4Q19E	2017	2018E	2019E	2020E
Revenue	183	198	210	217	209	221	229	233	226	233	253	288	808	893	999	1,222
Seq %	-6	8	6	3	-4	6	3	2	-3	3	9	14	12	11	12	22
COGS	129	132	136	144	146	148	149	154	156	155	165	196	541	597	672	823
% of sales	70	67	65	66	70	67	65	66	69	67	66	68	67	67	67	67
Gross profit	54	66	74	73	63	73	80	79	70	78	87	92	267	296	327	399
GPM%	29.7	33.2	35.3	33.7	30.1	33.0	35.0	34.0	31.0	33.5	34.5	32.0	33.1	33.1	32.8	32.7
OPEX	22	27	29	37	26	31	31	37	27	31	35	44	116	124	136	165
% of sales	12.2	13.8	14.0	17.0	12.3	13.9	13.4	15.7	11.9	13.4	13.7	15.2	14.3	13.9	13.7	13.5
Operating profit	32	38	45	36	37	42	49	43	43	47	53	48	151	172	191	234
OM%	17.5	19.3	21.3	16.7	17.8	19.1	21.6	18.3	19.1	20.1	20.8	16.8	18.7	19.2	19.1	19.2
Pretax profit	34	41	49	49	41	47	55	57	48	52	59	64	173	200	224	273
Taxes (benefit)	0	6	14	7	7	8	9	9	8	8	10	10	27	32	35	38
Net Profit after minorities	34	34	35	42	35	40	46	47	41	44	49	53	145	168	187	224
Wafer shipments (k 8" equiv)	432	459	477	501	478	502	512	518	507	517	543	603	1,869	2,011	2,171	2,510
QoQ (%)	-11	6	4	5	-5	5	2	1	-2	2	5	11				
YoY (%)	10	4	2	3	11	9	7	3	6	3	6	17	5	8	8	16
ASP per wafer (US\$)	414	424	429	424	429	433	437	442	437	441	455	468	423	435	451	478
QoQ (%)	6	2	1	-1	1	1	1	1	-1	1	3	3				
YoY (%)	1	8	11	9	3	2	2	4	2	2	4	6	7	3	4	6
Revenue by technology (%)																
<=13nm	34	32	33	35	35	34	33	36	36	35	37	39	34	35	37	42
0.15/0.18um	18	17	19	15	18	18	19	17	19	18	18	17	17	18	18	16
0.25um	2	3	2	2	2	2	3	1	2	2	2	1	2	2	2	1
>=0.35um	47	48	46	47	45	46	45	46	43	45	43	44	47	46	44	41
Capacity (8", thousand)	465	477	498	504	504	513	525	528	534	534	552	620	1,944	2,070	2,240	2,620
seq%	0	3	4	1	0	2	2	1	1	0	3	12	7	6	8	17

Source: Company data, BOCOM Int'l estimates

Hua Hong Semiconductor (1347 HK)



Financial Statements

Income statement (US\$ m)					
Y/E 31 Dec	2016	2017	2018E	2019E	2020E
Revenue	721	808	893	999	1,222
COGS	(501)	(541)	(597)	(672)	(823)
Gross profit	220	267	296	327	399
Opex	104	116	124	136	165
OP	116	151	172	191	234
Net interest expense	1	5	2	4	4
Equity Method	7	10	11	12	13
Others	29	7	16	18	22
Non-op income	37	21	29	34	39
Pre-tax income	154	173	200	224	273
Tax	25	27	32	35	38
Net income (before minority interest)	129	145	168	189	235
Minority interest	-	-	-	2	11
Net income	129	145	168	187	224
EPS (US cents)	12.42	13.91	13.04	14.50	17.38

Cash flow statement (US\$ m)					
Y/E 31 Dec	2016	2017	2018E	2019E	2020E
Net profit	129	145	168	187	224
Depreciation/amortization	88	105	113	124	124
Changes in work capital	(6)	(9)	(7)	(9)	(18)
Forex gain//loss	-	-	-	-	-
Others	1	(10)	-	-	-
Cash flow from operations	212	258	274	302	330
Capex	(169)	(136)	(100)	(130)	(130)
Sales of tangible assets	-	-	-	-	-
Investments	-	-	-	-	-
Others	(65)	(61)	(760)	(207)	(268)
Cash flow from investing	(233)	(197)	(860)	(337)	(398)
Dividends paid	(36)	(40)	(44)	(50)	(56)
New share issued	-	3	400	-	-
Debt issuance/(repayment)	(86)	(2)	100	200	200
Other	(4)	(2)	-	-	-
Cash flow from financing	(125)	(41)	456	150	144
Other	(22)	13	-	-	-
Net cash flow	(169)	34	(129)	115	76
Cash at beginning	510	341	375	246	361
Cash at end	341	375	246	361	437

Balance sheet (US\$ m)					
As of 31 Dec	2016	2017	2018E	2019E	2020E
Cash & cash equiv.	341	375	246	361	437
Marketable securities	126	194	194	194	194
Account receivables	144	159	176	197	241
Inventory	95	116	128	143	175
Others	9	10	10	10	10
Current assets	715	853	753	905	1,056
Land/CIP	20	21	21	21	21
PP&E, net	657	734	720	726	732
Investment in associates/JV	45	58	799	982	1,201
Investment property	169	180	198	222	272
Intangible asset	8	7	7	7	7
Other fixed assets	168	169	169	169	169
Total assets	1,827	2,078	2,667	3,031	3,457
Accounts payable	176	209	231	258	316
Short-term debt	2	61	49	50	52
Others	60	67	67	67	67
Current liabilities	238	337	347	375	435
Long term debt	91	32	144	343	541
Others	9	14	14	14	14
Total liabilities	338	383	505	732	990
Common stock	1,550	1,555	1,955	1,955	1,955
Reserves	(62)	140	207	344	512
Shareholder equity	1,489	1,695	2,162	2,298	2,467
minority interest	-	-	-	-	-
Total Liabilities & Capital	1,827	2,078	2,667	3,031	3,457

Financial ratios					
Y/E 31 Dec	2016	2017	2018E	2019E	2020E
P/E (x)	19.7	17.6	18.8	16.9	14.1
P/B (x)	1.7	1.5	1.5	1.4	1.3
P/S (x)	3.5	3.2	3.5	3.2	2.6
EV/EBITDA (x)	11.2	8.9	10.9	10.1	9.3
Dividend yield (%)	1.4	1.5	1.4	1.6	1.8
Net debt/equity	(0.2)	(0.2)	(0.0)	0.0	0.1
ROE (%)	8.6	9.1	8.7	8.4	9.4
ROA (%)	6.9	7.4	7.1	6.6	7.3
ROIC (%)	7.9	8.6	8.1	7.5	8.2

Source: Company data, BOCOM Int'l estimates

Hua Hong Semiconductor (1347 HK)



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Analyst Stock Ratings:

Buy: The stock's total return is expected to **exceed** that of the corresponding industry over the next 12 months.

Neutral: The stock's total return is expected to be **in line with** that of the corresponding industry over the next 12 months.

Sell: The stock's total return is expected to be **below** that of the corresponding industry over the next 12 months.

Not-Rated: The analyst **does not have conviction** regarding the outlook of the stock's total return relative to that of the corresponding industry over the next 12 months.

Analyst Industry Views:

Outperform: The analyst expects the industry coverage universe to be attractive relative to the relevant broad market benchmark over the next 12 months.

Market perform: The analyst expects the industry coverage universe to be in line with the relevant broad market benchmark over the next 12 months.

Underperform: The analyst expects the industry coverage universe to be **unattractive** relative to the relevant broad market benchmark over the next 12 months.

Broad market benchmark for Hong Kong is the Hang Seng Composite Index, for China A-shares is the MSCI China A Index, for US-listed Chinese companies is S&P US Listed China 50 (USD) Index.

Hua Hong Semiconductor (1347 HK)



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