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Shennan Circuits (002916 CH)

Substrate demand remains strong in 2022

Shennan Circuits raised RMB2.55bn through a private placement on Thursday, and key participants include National IC industry Investment Fund. The proceeds will be used to expand high-end flip chip IC substrate manufacture. Although we think substrate demand will remain strong, the new capacity will not contribute much before end of 2023. In addition, we believe the positive news have been priced in and the stock is fairly valued. Maintain HOLD with TP of RMB110.75.

- National IC Industry Investment Fund (Phase II) invested in Shennan's recent private placement. Shennan Circuits raised RMB2.55bn through a private placement. The company issued 23.7mn shares at a price of RMB107.62. There are 19 participants including Huatai Securities, National IC industry Investment Fund, JP Morgan Chase, UBS, etc. The fund will be used to expand Shennan's capacity in high-end flip chip IC substrate manufactures. In 1H21, substrate business accounted for ~19% of total revenue
- IC substrate supply is expected to remain tight. We saw substrate demand was strong since last year as we pointed out in our previous reports. Shennan has announced new capacity in Guangzhou factory, with planned capacity of 200mn FC-BGA and 3mn panel RF/FC-CSP. Looking forward, we believe the demand will remain strong. BT substrate is expected to be tight at least in 1H22, while the supply of ABF substrate will fall short throughout 2022.
- Shennan's current substrate capacity is under full production; new capacity will contribute in 2023/34E. Shennan's existing substrate capacity has been in full production since 2020, driven by strong semiconductor demand. Current substrate capacity is 30w per year. New substrate capacity includes Wuxi, Jiangsu and Guangzhou, Guangdong.
- Maintain HOLD with TP of RMB110.75. Although we think substrate demand will remain strong, the company's current capacity is under full production and new capacity will not contribute before end of 2023. As the positive news have been priced in, we think the stock is fairly valued at the moment. Potential upside risks include faster-than-expected decline of material costs, higher-than-expected 5G infrastructure spending and consumer demand.

Earnings Summary

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(YE 31 Dec)	FY19A	FY20A	FY21E	FY22E	FY23E
Turnover (RMB mn)	10,524	11,600	13,141	15,629	17,668
YoY growth (%)	38.4%	10.2%	13.3%	18.9%	13.0%
Gross margin (%)	26.5%	26.5%	24.2%	25.0%	25.7%
Net profit (RMB mn)	1,234	1,430	1,423	1,819	2,200
EPS (RMB)	3.66	3.00	2.90	3.69	4.47
YoY growth (%)	47.0%	-18.0%	-3.4%	27.4%	21.0%
Consensus EPS (RMB)	NA	NA	2.92	3.74	4.38
PE (x)	26.7	32.6	33.7	26.5	21.9
PB (x)	6.6	6.3	5.7	4.9	4.2
Yield (%)	1.2%	1.0%	1.0%	1.2%	1.5%
ROE (%)	24.7%	19.2%	16.8%	18.5%	19.2%

Source: Company data, Bloomberg, CMBIS estimates

HOLD (Maintain)

Target Price RMB110.75 (Previous TP RMB110.75) Up/Downside -3.7% Current Price RMB115.05

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Stock Data Mkt Cap (HK\$ mn) 56,282 Avg 3 mths t/o (HK\$ mn) 438 52w High/Low (HK\$) 126.66/74.88 Total Issued Shares (mn) 489.2 Source: Bloomberg

Shareholding StructureAVIC International Holdings67.06%HK Securities Clearing2.60%China Asset Management Co0.90%Source: HKEx

Share Performance

	Absolute	Relative
1-mth	0.4%	9.2%
3-mth	6.1%	11.9%
6-mth	8.3%	16.8%
Source: Bloomberg	1	

12-mth Price Performance



Source: Bloomberg

Auditor: BDO

Recent Reports:

- Strong 3Q results; Cost pressure remains – 2 Nov 2021 (Link)
- Positive on capacity expansion plan; Maintain HOLD on fair valuation – 25 Jun 2021 (<u>Link</u>)



Company capacity

Shennan's PCB capacity was about 200w sq m per year. The capacity of the Company's PCB production was ~80-85% in 1H21. New PCB capacity includes 1) Phase II plant in Nantong, Jiangsu (58w sq m, currently ramping up in the mid-to-late stage) and 2) Phase III plant in Nantong, Jiangsu (expected to begin production in 4Q22).

Shennan's substrate capacity was 30w per year. New substrate capacity includes 1) Wuxi, Jiangsu (60w, high-end substrate, currently ramping up in the late stage) and 2) Guangzhou, Guangdong (expected to begin production in 2023).

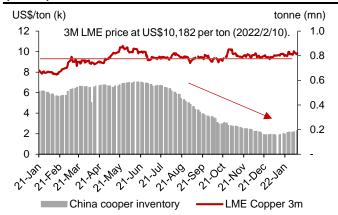
Shennan announced to expand substrate capacity in Guangzhou production base, which will add 200mn FC-BGA and 3mn panel RF/FC-CSP substrate capacity. We expect the new project to contribute revenue in 2023/24E. Shennan's existing substrate capacity has been in full production since last year, driven by strong semiconductor demand.

Figure 1: Capacity Schedule

Capacity Schedule	FY20	FY21E	FY22E	FY23E
PCB				
Shenzhen, Guangdong (100w sqm)				
Wuxi, Jiangsu (50w)				
Nantong, Jiangsu (50w, increased from 34w)		_		
NewNantong, Jiangsu (58w sqm)				
Substrate				
Shenzhen, Guangdong (30w, increased from 23w)				
NewWuxi, Jiangsu (60w sqm)				
NewGuangzhou, Guangong	•			

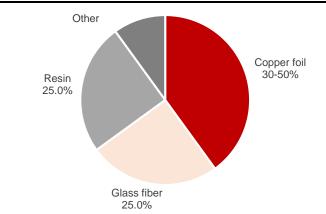
Source: Company data, CMBIS estimates

Figure 2: Copper: price is high while inventory is low (China)



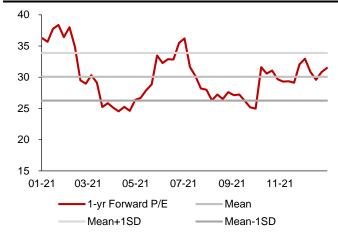
Source: Wind, CMBIS estimates

Figure 3: Copper foil accounts for the largest part of CCL cost (2020)



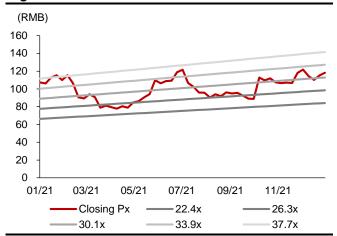
Source: Shengyi Electronics, CMBIS estimates

Figure 4: 12M forward P/E chart



Source: Company data, CMBIS

Figure 5: 12M forward P/E band



Source: Company data, CMBIS



Financial Summary

Income statement						Cash flow					
YE 31 Dec (RMB mn)	FY19A	FY20A	FY21E	FY22E	FY23E	YE 31 Dec (RMB mn)	FY19A	FY20A	FY21E	FY22E	FY23E
Revenue	10,524	11,600	13,141	15,629	17,668	Net profit	1,234	1,431	1,424	1,820	2,202
Cost of sales	(7,732)	(8,530)	(9,955)	(11,723)	(13,119)	D&A	448	606	778	1,039	1,324
Gross profit	2,792	3,071	3,186	3,906	4,549	Change in working capital	(650)	(557)	(185)	(698)	(986)
						Others	232	320	177	45	207
Selling exp	(218)	(167)	(231)	(250)	(282)	Net cash from operating	1,263	1,800	2,194	2,207	2,748
Admin exp (excl. R&D)	(501)	(480)	(508)	(594)	(654)						
R&D exp	(537)	(645)	(733)	(872)	(986)	Capex	(2,183)	(2,486)	(893)	(1,114)	(1,316)
Finance costs	(72)	(152)	(64)	(69)	(64)	Other	186	(149)	27	201	26
Other operating exp.	2,702	2,889	3,164	3,661	4,104	Net cash from investing	(1,997)	(2,635)	(866)	(914)	(1,290)
Operating profit	1,418	1,625	1,559	2,030	2,431	_					
						Share issuance	130	0	38	40	40
Other non-oper exp.	(14)	(19)	(6)	(16)	(13)	Dividend paid	(278)	(453)	(465)	(462)	(591)
Pre-tax profit	1,404	1,606	1,553	2,013	2,418	Other	1,664	383	1,145	166	341
-						Net cash from financing	1,516	(71)	719	(256)	(210)
Income tax expense	(170)	(175)	(129)	(193)	(216)	_					
Minority interests	1	1	1	2	2	Net change in cash	791	(937)	2,046	1,037	1,248
Net profit	1,234	1,430	1,423	1,819	2,200	Cash at beginning of the year	650	1,441	504	2,550	3,588
-						Exchange difference	9	(31)	0	0	0
						Cash at the end of the year	1,441	504	2,550	3,588	4,835

Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY19A	FY20A	FY21E	FY22E	FY23E	YE 31 Dec	FY19A	FY20A	FY21E	FY22E	FY23E
Current assets	5,977	5,941	8,724	11,873	13,217	Revenue mix					
Cash & equivalents	1,444	507	2,550	3,588	4,835	PCB	7726	8311	8419	10260	11752
Account receivables	2,092	2,053	3,203	3,743	4,110	PCBA	1211	1160	1334	1321	1307
Inventory	1,504	2,206	1,942	3,268	2,979	Substrate	1164	1544	2574	3153	3623
Prepayment	3	6	12	11	14						
Other current assets	934	1,169	1,016	1,263	1,279	Growth (%)					
						Revenue	38.4%	10.2%	13.3%	18.9%	13.0%
Non-current assets	6,242	8,067	8,416	8,517	8,600	Operating profit	80.9%	14.6%	-4.1%	30.2%	19.8%
PPE	4,310	6,485	8,400	10,141	11,871	Net profit	76.9%	15.9%	-0.5%	27.8%	21.0%
Deferred tax assets	68	72	85	103	109						
Other non-current	1,865	1,509	-69	-1,727	-3,380	Profit & loss ratio (%)					
Total assets	12,219	14,008	17,140	20,390	21,817	Gross margin	26.5%	26.5%	24.2%	25.0%	25.7%
						Operating margin	13.5%	14.0%	11.9%	13.0%	13.8%
Current liabilities	4,670	4,932	6,071	7,842	7,312	Net profit margin	11.7%	12.3%	10.8%	11.6%	12.5%
ST borrowings	158	232	370	390	425						
Account payables	1,555	1,515	2,333	3,119	2,463	Balance sheet ratio					
Tax payable	46	22	55	49	61	Net debt/total equity (%)	Net cash	10.5%	Net cash	Net cash I	Net cash
Other current liabilities	2,911	3,163	3,313	4,284	4,363	Current ratio (x)	1.3	1.2	1.4	1.5	1.8
						Receivable turnover days	64	65	73	81	81
Non-current liabilities	2,547	1,631	2,596	2,730	3,028	Inventory turnover days	(67)	(79)	76	81	87
LT borrowings	945	1,059	1,677	1,767	1,928	Payable turnover days	(67)	(66)	(71)	(85)	(78)
Deferred tax liability	3	6	7	9	9						
Other non-current	1,599	566	912	954	1,091	Profitability (%)					
Total liabilities	7,216	6,563	8,667	10,572	10,340	ROE	24.7%	19.2%	16.8%	18.5%	19.2%
						ROA	10.1%	10.2%	8.3%	8.9%	10.1%
Share capital	339	489	491	492	494						
Reserve	2,231	3,660	3,696	3,734	3,773	Per share data (RMB)					
Minority interest	2	3	4	6	8	EPS	3.66	3.00	2.90	3.69	4.47
Total equity	5,003	7,444	8,472	9,818	11,477	DPS	1.15	0.95	0.94	1.20	1.45
Total liabilities and	12,219	14,008	17,140	20,390	21,817	BPS	14.84	15.61	17.25	19.93	23.29

Source: Company data, CMBIS estimates



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