CMB International Securities | Equity Research | Sector Update

China Technology Sector

Time to revisit China 5G supply chain; Positive catalysts on the horizon

China MIIT recently announced China has built global largest 5G network with 718k BTS YTD (330k co-built co-share), largely in-line with our estimate. We expect China telco operators will initiate third phase of 5G BTS tenders in next few weeks, and 5G BTS net-adds will reach 800k in FY21E. Overall, we believe China 5G deployment will keep moderately advanced pace in 2021, and we recommend to revisit sector leaders who will benefit from 5G investment cycle, rising penetration of 5G smartphones and increasing internet traffic. Our top picks are ZTE-H, Innolight, Sunway and Shengyi Tech. Upcoming catalysts include 3rd phase of 5G BTS tenders, operators' 2021 capex budget and 4Q20 earnings.

- China 5G BTS net-add on track to reach 600k in FY20E. MIIT announced total 5G BTS net-adds is 588k as of mid-Dec, in line with our estimate of 600k. Current 5G network has made 5G services available in all Chinese cities at prefecture level and above. Total number of 5G BTS for China Mobile and China Unicom/China Telecom reached 390k/330k, and we estimate Huawei /ZTE accounted for 56%/31% market share in China.
- Expect FY21E 5G BTS net-add to reach 800k-1mn. Recent media news (e.g. China Daily) reported 5G BTS net-adds could reach 1mn in FY21E (vs 800k our est.), and we expect potential upside can come from further reduction of 5G equipment procurement cost. While official plan is not announced yet, we reiterate our optimistic view on 5G supply chain given unchanged positive tone of "moderately advanced 5G deployment in China". We believe 5G network will play a critical role as a foundation to promote development of digital ecosystem and industrial IoT.
- Positive on sector leaders benefiting from 5G CAPEX cycle. We believe major beneficiary is equipment vendors and its supply chain, as over 50% of Chinese operators' capex budget will be invested on 5G equipment and 5G-related investment. We also expect CBN to build 200k-400k 5G BTS for 700MHz network in FY21E, which offers further upside for suppliers. Our top pick is ZTE-H given its leading market position, global share gain and reasonable valuation. We also favor Innolight for 400G upgrade, 5G rollout, share gain and robust data growth, and Shengyi Tech on localization and content growth. We also like Sunway for antenna/RF/wireless charging upgrade. Risks include slower 5G deployment, weaker capex from cloud giants and higher ASP pressure.

Valuation Table

Name	Ticker	Rating	Mkt Cap	Price	TP	Up/Down	P/E	(X)	P/B (x)	ROE
Name	TICKEI	Kaung	(USD mn)	(LC)	(LC)	-side	FY20E	FY21E	FY20E	FY20E
ZTE-H	763 HK	Buy	21,772	18.04	26.3	46%	14.8	10.5	1.5	10.1
ZTE-A	000063 C	H Buy	21,772	30.57	41.2	35%	32.5	23.1	3.3	101
Innolight	300308 C	H Buy	5,575	47.34	73.5	55%	39.0	26.6	4.3	11.01
Sunway	300136 C	H Buy	5,559	36.17	64.3	78%	28.6	17.6	6.2	21.6
Shengyi Tech	600183 C	H Buy	9,734	28.16	33.7	20%	34.3	25.1	6.4	18.6
Shennan C.	002916 C	H Hold	8,081	102.4	129.1	26%	34.0	25.8	6.6	19.4
China Tower	788 HK	Hold	26,106	1.16	1.3	13%	24.3	18.8	0.8	3.5

Source: Bloomberg, CMBIS estimates



OUTPERFORM (Maintain)

China Technology Sector

Alex Ng (852) 3900 0881 alexng@cmbi.com.hk

Lily Yang (852) 3916 3716 lilyyang@cmbi.com.hk

Related Reports

China 5G Technology - Picking structural winners amid uncertainties; Initiate at Outperform – 18 Dec 2020



Valuation Summary

Figure 1: China 5G Supply Chain – Comparison

-g			Mkt Cap	Price	ТР	Up/Down	P/E	(y)	P/B	(v)	ROE	(9/.)
Company	Ticker	Rating	(US\$ mn		(LC)	-side	FY20E		FY20E			FY21E
Equipment	TICKCI	rtating		/ (=•)	(20)	orao						
ZTE (H)	763 HK	Buy	21,772	18.04	26.3	46%	14.8	10.5	1.5	1.3	10.1	12.7
ZTE (A)	000063 CH	Buy	21,772	30.57	41.2	35%	32.5	23.1	3.3	2.9	10.1	12.7
Fiberhome	600498 CH	NR	4,282	21.73	NA	NA	42.4	28.1	2.3	2.2	6.2	8.6
Nokia	NOK US	NR	22,050	3.90	NA	NA	14.7	16.0	1.0	1.0	6.2	5.0
Ericsson	ERIC US	NR	22,030 39,496	11.77	NA	NA	14.7	16.0	3.6	3.2	17.5	18.1
Encsson	ERIC US	INIK		11.77	INA	NA	24.6	18.0 18.7	3.6 2.4	3.2 2.1	17.5 10.0	10.1 11.4
Optical compone	nt/transcoivo	•	Average				24.0	10.7	2.4	2.1	10.0	11.4
Innolight	300308 CH	Buy	5,575	47.34	73.5	55%	39.0	26.6	4.3	3.7	11.0	14.1
-		•										
Accelink Tech	002281 CH	NR	3,108	27.19	NA	NA	40.3	33.7	4.0	3.6	10.1	10.8
Eoptolink Tech	300502 CH	NR	3,112	51.95	NA	NA	41.3	29.7	9.0	7.1	24.9	26.2
HG Genuine	000988 CH	NR	3,640	23.57	NA	NA	34.8	33.3	3.5	3.1	10.1	10.9
FIT	6088 HK	NR	2,445	2.67	NA	NA	14.8	11.1	1.1	1.0	7.6	9.5
Lumentum	LITE US	NR	7,470	98.94	NA	NA	19.5	16.1	4.3	3.9	24.0	25.1
Finisar	IIVI US	NR	8,110	78.19	NA	NA	35.8	23.1	3.6	2.8	11.8	15.1
Sumitomo	8053 JT	NR	16,451	1346.00	NA	NA	8.6	-	0.6	0.7	8.7	(4.6)
NeoPhotonics	NPTN US	NR	456	9.10	NA	NA	33.3	-	2.6	2.7	8.9	(4.3)
Cisco	CSCO US	NR	189,810	44.92	NA	NA	14.3	14.2	5.2	4.7	37.8	33.1
			Average				28.2	23.5	3.8	3.3	15.5	13.6
Antenna												
Sunway	300136 CH	Buy	5,559	36.17	64.3	78%	28.6	17.6	6.2	4.6	21.6	26.2
Speed	300322 CH	NR	812	12.12	NA	NA	52.1	31.8	-	-	-	-
Amphenol	APH US	NR	38,842	129.84	NA	NA	35.9	30.7	7.7	7.1	23.3	24.5
			Average				38.9	26.7	6.9	5.8	22.4	25.4
Wireless chargin	g											
Sunway	300136 CH	Buy	5,559	36.17	64.3	78%	28.6	17.6	6.2	4.6	21.6	26.2
Luxshare	002475 CH	NR	60,295	55.58	NA	NA	54.3	38.3	10.0	10.6	27.6	29.1
Lingyi iTech	002600 CH	NR	13,748	12.55	NA	NA	36.6	25.7	3.6	2.9	15.8	18.5
Anjie Tech	002635 CH	NR	1,635	16.10	NA	NA	21.5	17.9	1.8	1.6	8.6	9.4
Amphenol	APH US	NR	38,842	129.84	NA	NA	35.9	30.7	7.7	7.1	23.3	24.5
, an priorier			Average				35.4	26.1	5.8	5.4	19.4	21.5
CCL									•	••••		•
Shengyi Tech	600183 CH	Buy	9,734	28.16	33.7	20%	34.3	25.1	6.4	5.6	18.6	22.3
Nanya	1303 TT	NR	19,820	70.60	NA	NA	30.5	19.7	1.6	1.5	5.4	7.9
ITEQ	6213 TT	NR	1,628	141.50	NA	NA	18.1	13.5	4.3	3.8	25.0	27.1
Kingboard	148 HK	NR	4,542	30.85	NA	NA	8.6	8.0	4.0	0.0	20.0	21.1
Sumitomo	4203 JT	NR	1,691	3480.00	NA	NA	15.6	19.7	0.9	0.9	6.2	4.9
Rogers	ROG US	NR	2,953	158.13	NA	NA	32.2	25.3	- 0.5	0.5	0.2	4.5
Rogers	100 00		Average	150.15			23.2	18.6	3.3	3.0	13.8	15.5
PCB			Average				23.2	10.0	5.5	5.0	13.0	13.5
Shengyi Tech	600183 CH	Build	9,734	28.16	33.7	20%	34.3	25.1	6.4	5.6	18.6	22.3
		Buy										
Shennan Circuits	002916 CH	Hold	8,081	102.48	129.1	26%	34.0	25.8	6.6	5.5	19.4	21.4
WUS	002463 CH	NR	4,945	18.09	NA	NA	23.9	19.8	5.2	4.3	22.9	23.2
Kinwon	603228 CH	NR	3,858	28.95	NA	NA	-	-	-	-	-	-
DSBJ	002384 CH	NR	7,014	25.68	NA	NA	30.0	22.4	4.3	3.7	14.5	17.3
Zhen Ding	4958 TT	NR	3,704	115.50	NA	NA	12.5	10.0	1.4	1.3	11.1	13.4
TTM	TTMI US	NR	1,468	13.75	NA	NA	13.5	11.0	1.0	1.0	8.8	8.9
UMTC	3037 TT	NR	4,590	85.30	NA	NA	30.0	22.6	2.8	2.6	8.8	11.8
Tripod	3044 TT	NR	2,205	119.00	NA	NA	10.6	9.8	1.7	1.6	16.3	16.0
Comped	2313 TT	NR	1,826	43.70	NA	NA	10.5	9.5	1.8	1.6	17.9	17.9
SEMCO	009150 KS	NR	12,043	167500.00	NA	NA	23.0	17.7	2.3	2.1	10.6	12.4
			Average				22.1	17.3	3.5	3.0	15.4	16.9
Tower												
China Tower	788 HK	Hold	26,106	1.16	1.3	13%	24.3	18.8	0.8	0.8	3.5	4.4
Tower Bersama	TBIG IJ	NR	2,681	1700.00	NA	NA	34.8	28.2	6.2	5.6	20.3	21.7
Crown Castle	CCI US	NR	67,390	156.25	NA	NA	84.2	65.4	7.2	8.1	7.9	11.7
American Tower	AMT US	NR	98,202	221.07	NA	NA	51.4	39.7	35.1	47.2	40.4	74.7
China Comm	552 HK	NR	3,127	3.53	NA	NA	6.6	5.7	0.6	0.5	8.5	9.2
			Average	-			40.3	31.6	10.0	12.4	16.1	24.3
										-		-

Source: Bloomberg, CMBIS estimates



Disclosures & Disclaimers

Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

CMBIS Ratings BUY HOLD SELL NOT RATED	: Stock with potential return of over 15% over next 12 months : Stock with potential return of +15% to -10% over next 12 months : Stock with potential loss of over 10% over next 12 months : Stock is not rated by CMBIS
OUTPERFORM	: Industry expected to outperform the relevant broad market benchmark over next 12 months
MARKET-PERFORM	: Industry expected to perform in-line with the relevant broad market benchmark over next 12 months
UNDERPERFORM	: Industry expected to underperform the relevant broad market benchmark over next 12 months

CMB International Securities Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Securities Limited ("CMBIS") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIS does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIS recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIS, solely for the purpose of supplying information to the clients of CMBIS and/or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIS nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIS has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIS provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIS may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIS may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIS may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIS does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIS may have a conflict of interest that could affect the objectivity of this report and CMBIS will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIS. Additional information on recommended securities is available upon request.

For recipients of this document in the United Kingdom

This report has been provided only to persons (I)falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time)("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc.,) of the Order, and may not be provided to any other person without the prior written consent of CMBIS.

For recipients of this document in the United States

CMBIS is not a registered broker-dealer in the United States. As a result, CMBIS is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. The research analyst who is primary responsible for the content of this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA"). The analyst is not subject to applicable restrictions under FINRA Rules intended to ensure that the analyst is not affected by potential conflicts of interest that could bear upon the reliability of the research report. This report is intended for distribution in the United States solely to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, as amended, and may not be furnished to any other person in the United States. Each major US institutional investors that receives a copy of this report by its acceptance hereof represents and agrees that it shall not distribute or provide this report to any other person. Any U.S. recipient of this report wishing to effect any transaction to buy or sell securities based on the information provided in this report should do so only through a U.S.-registered broker-dealer.

For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.