

Technology

Al Server and Al PC/smartphone supply chain set to continue strong momentum into 1H24E

We reiterate our positive view on AI server and AI PC/Phone supply chain, as highlighted in our 2024 sector outlook (link). In particular, we see AI server order /backlog/pipeline from major server ODM/brands (DELL/SMCI/Lenovo/HPE) are gaining strong momentum in CY4Q23, well ahead of our expectations. For edge AI (PC/phones), we see more product launches and strong consumer interest of AI smartphones, esp. Samsung Galaxy S24 and new products in MWC (e.g. Honor Magic Pro, Xiaomi 14 Ultra). Overall, we see stronger demand for AI server /PC/smartphone than we expected, as more enterprises are investing into AI applications/models/products and chip supply constraints will start to ease into 1H24E. For AI servers, we believe server ODM/brands will benefit such as FII, SMCI, Lenovo, Dell, Inspur and Huaqin, while edge AI adoption will extend from smartphone, PC/NB to AR/VR devices, benefiting Xiaomi, Apple, Transsion, BYDE and Luxshare.

- Al Server: DELL/SMCI/Lenovo/HPE strong Al outlook and H20 Al chip ready to ship. Following strong order/backlog from major Al ODMs in 4Q23, we believe Al strength should continue to drive sector re-rating into 1H24E.
 1) DELL: US\$800mn Al server revenue in FY4Q, up 40% from US\$500mn in 3Q, and US\$2.9bn backlog (H100/H800/H200/ MI300X), up 80% from US\$1.6bn in 3Q. Expect mid-teens ISG sales growth in FY25E and 20% FY23-27E CAGR for Al server revenue.
 2) SMCI: US\$3.7bn revenue in FY2Q, up 77% QoQ/103% YoY, and FY3Q revenue guidance of US\$3.7-4.1bn, up 6% QoQ/ 204% YoY. Revised up FY24E sales guidance to US\$14.3-14.7bn (vs US\$10-11bn prior).
 3) Lenovo: US\$2.5bn ISG revenue, +24% QoQ/ -13% YoY. Won US\$1bn booking from CSP.
 4) HPE: US\$1.2bn HPC/Al revenue in FY4Q, up 26% QoQ, US\$3.6bn Al orders in FY23E (vs \$3bn in mid-Oct), and US\$3.2bn backlog, up modestly QoQ.
 5) NVDA H20: media reported that Al chip H20 for Chinese market will be available for preorders by end of March, benefiting domestic ODM/OEM like Inspur/Huaqin.
- Al Phone/PC: new products at MWC, Galaxy Ring, Apple Al initiatives. Major brands (Samsung/Honor/Xiaomi/OPPO/Meizu/Lenovo) announced new products with Al features at MWC 2024. In particular, Xiaomi 14 Ultra is equipped with Al imaging engine and Honor Magic 6 Pro features MagicLM on-device LLM. Samsung also launched a new Galaxy Ring, and we believe Apple's recent shift towards generative Al is a good strategic move, which will accelerate development of edge Al devices.
- More upside on recovery and Al-driven upcycle in 1H24E. We believe Al hardware supply chain will continue to benefit from growing investment/ CAPEX from CSPs and enterprises, and tech companies are keen to launch new Al products as next growth drivers. We recommend to pay attention to Al supply chain stocks, such as FII, SMCI, Lenovo, Dell, Inspur, Huaqin, Xiaomi, Apple, Transsion, BYDE and Luxshare.

Valuation Table

Name	Name Ticker		Mkt Cap	Price	P/E	(x)	P/E	3 (x)	RC	ÞΕ
		Rating	(US\$ mn)	(LC)	FY23E	FY24E	FY23E	FY24E	FY23E	FY24E
Xiaomi	1810 HK	BUY	42,803	13.34	16.2	15.5	1.9	1.7	11.2	10.9
Apple	AAPL US	NR	2,774,288	179.66	29.6	27.2	47.8	36.8	169	146
Transsion	688036 C	H NR	18,772	167.56	25.5	21.5	6.9	5.7	28.4	27.0
FII	601138 C	H NR	60,756	22.02	18.6	15.5	3.1	2.7	16.6	17.7
SMCI	SMCI US	NR	50,647	905.48	80.0	41.8	24.6	14.8	36.3	43.0
Lenovo	992 HK	NR	15,441	9.74	9.0	16.6	2.4	2.5	30.6	16.2
DELL	DELL US	NR	88,658	124.59	16.7	18.7	-	-	-	-

Source: Company data, CMBIGM estimates

China Technology Sector

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

Hanqing LI lihanqing@cmbi.com.hk

Claudia LIU claudialiu@cmbi.com.hk



Server/Datacenter Supply Chain:

Figure 1: Global data center supply chain: 4Q23 results and 1Q24E outlook

		3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24E	
Company	Revenue	Α	Α	Α	Α	Α	Α	Cons.	Outlook/Guidance
Server Brand	ds								
	YoY Growth %								
	Total	-3%	5%	-29%	4%	-18%	22%	-8%	*1Q24: ISG/CSG rev +5% QoQ with ISG mid-high
	Client solutions Group (CSG)	-17%	-23%	-23%	-16%	-11%	-12%	-3%	teen_
Dell (DELL US)	Infrastructure Solutions Group (ISG)	12%	7%	-18%	-11%	-12%	-6%	16%	* 2024: ISG mid-teen growth; CSG low single digit
(DELL US)	QoQ Growth %								growth; Overall 8% YoY growth
	Total	-6%	1%	-16%	10%	-3%	0%	-3%	* Traditional server: recovering with steady growth
	Client solutions Group (CSG)	-11%	-3%	-10%	8%	-5%	-5%	-1%	* Al server: grow this year but uncertain competition
	Infrastructure Solutions Group (ISG)	1%	3%	-23%	11%	0%	10%	-5%	*Long term AI growth opportunity in network, storage
	YoY Growth %								
	Total	-4%	-24%	-24%	-24%	-16%	3%	3%	*Al server growth to double in FY24E
	Intelligent Devices Group (IDG)	-11%	-34%	-33%	-28%	-16%	7%	2%	*All server is market driver and will drive revenue and
	Infrastructure Solutions Group (ISG)	33%	48%	56%	-8%	-23%	-13%	1%	NP recovery to reach YoY growth in next quarter
Longue	Solutions & Services Group (SSG)	26%	23%	18%	18%	11%	10%	7%	*AI PC penetration rate to reach 60% in FY24-26E
	QoQ Growth %								*ThinkEdge has the fastest growth rate and expect
(992 03)	Total	1%	-11%	-17%	2%	12%	9%	-17%	75% of data on edge computing
	Intelligent Devices Group (IDG)	-4%	-16%	-15%	5%	12%	7%	-19%	
	Infrastructure Solutions Group (ISG)	25%	9%	-23%	-13%	5%	24%	-11%	
	Solutions & Services Group (SSG)	18%	7%	-10%	4%	12%	5%	-12%	
	YoY Growth %								
- -	Total	7%	12%	4%	1%	-7%	-13%	-1%	* 2H24 is better than 1H24E due to seasonality
	Compute	19%	10%	-10%	-16%	-33%	000/	-3%	* PC market TAM to recover in FY24E with low sing
	HPC & AI	-37%	46%	10%	-8%	56%	-23%	64%	digit growth
	Hybrid Cloud		12%	9%	7%	-7%	-10%	-7%	* Al individual computers penetration rate to reach
	Intelligent Edge	24%	23%	47%	48%	39%	3%	-8%	between 40-60% of total sales in the next 3 years
	Financial Services	0%	4%	4%	7%	2%	0%	1%	* PC demand to recover in 2H24E with better produc
HP Enterprise	Corporate Investments & Other	-32%	-11%	-10%	3%	10%	2%	11%	mix
HPE US)	QoQ Growth %								
(HFE 03)	Total	13%	-1%	-11%	0%	5%	-8%	3%	
	Compute	25%	-9%	-22%	-5%	0%	-6%	-	
	HPC & AI	1%	30%	-33%	5%	70%	-0%	-	
	Hybrid Cloud	11%	-4%	-1%	2%	-4%	-7%	2%	
	Intelligent Edge	3%	16%	15%	8%	-3%	-15%	3%	
	Financial Services	5%	2%	-2%	2%	0%	0%	-1%	
	Corporate Investments & Other	0%	-3%	3%	2%	7%	-10%	12%	
Server ODMs	5								
	YoY Growth %								
	Total	46%	22%	-12%	-9%	-25%	-8%	4%	*1Q24 demand is low due to seasonality;PC
Quanta	QoQ Growth %								shipment to decline doule-digit QoQ
(2382 TT)	Total	41%	-15%	-18%	-8%	17%	5%	-8%	*FY24E PC shipment stay flattish and due to low
	YoY Growth %								visibility, shipment guidance depends on overall
	Total	79%	54%	-5%	34%	14%	103%	206%	* 1Q24 guidance: revenue to grow 188-219% YoY
	Server & Storage Systems	102%	68%	2%	37%	15%	107%	216%	* FY24E: revenue to grow 101-106%
Supermicro	Subsystems & Accessories	-24%	-24%	-43%	0%	10%	61%	114%	* Two CSP clients with revenue mix of 26% and 11%
(SMCI US)	QoQ Growth %								* Raised FY24E guidance due to volume growth
	T	13%	-3%	-29%	70%	-3%	73%	7%	feeten then ACD annuals in the mount ferromann
(SIVICI US)	Total	13%	-3%	-23/0	1070	-0/0	13/0	1 /0	faster than ASP growth in the next few years
(SIVICI 03)	Server & Storage Systems	16%	-3%	-30%	75%	-3%	75%	7%	* <u>Liquid cooling is the future trend</u> , but now air

Source: Company announcement, Bloomberg, CMBIGM



Figure 2: Global data center supply chain: 4Q23 results and 1Q24E outlook

		3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24E								
ompany	Revenue	Α	Α	Α	Α	Α	Α	Cons.	Outlook/Guidance							
witch/Newo	ork															
	YoY Growth %															
	Total	6%	7%	14%	16%	8%	-6%	-16%	 * 1Q24E revenue miss market expectations (US 12.1-12.3bn) * FY24E revenue range of USD 51.5-52.5bn and 							
	Product	8%	9%	17%	20%	9%	-9%	-20%	12.1-12.3bn)							
Cisco (CSCO US)	Networking	9%	11%	24%	28%	10%	-12%	-27%								
	Security	8%	7%	2%	0%	4%	3%	3%	below street expectations							
	Collaboration	-2%	-10%	-13%	-12%	3%	3%	-1%	*Customers' orders are temporarily suspended as							
	Obsevability	9%	14%	14%	19%	21%	16%	13%	they are busy installing the purchased equipmed * Supply dilemma to be resovled in 2H24E * Telecommunication companies' weak spending							
	Services	0%	2%	3%	4%	4%	4%	2%								
	QoQ Growth %															
(CSCO US)	Total	4%	0%	7%	4%	-4%	-13%	-4%	last longer than expected							
	Product	6%	-1%	9%	5%	-4%	-17%	-4%	J							
	Networking	-1%	-3%	2%	3%	2%	-4%	1%								
	Security	-1%	-3%	2%	3%	2%	-4%	1%								
	Collaboration	-7%	-12%	3%	4%	9%	-11%	-2%								
Arista (ANET US)	Obsevability	6%	3%	3%	5%	8%	-1%	0%								
	Services	-1%	1%	1%	2%	-1%	1%	-1%								
	YoY Growth %	-170	1 /0	1 /0	2 /0	-170	1 /0	-170								
	Total	57%	55%	54%	39%	28%	21%	14%	* Leading position in shipment of 100G/200G/400G							
	Product	67%	64%	62%	42%	27%	19%	13%	data center switches							
									* FY24E: double digit growth of 10-12% YoY; GPM							
Arista (ANET US)	Service	16%	14%	18%	19%	33%	29%	26%	62-64%; OPM 42% with capex growth > revenue							
	QoQ Growth %	400/	00/	00/	00/	00/	00/	00/								
	Total	12%	8%	6%	8%	3%	2%	0%	*Oracles is a top Al cloud customer							
	Product	14%	9%	7%	8%	2%	2%	1%	* Half revenue from Microsoft and half from Meta							
	Service	1%	6%	0%	10%	13%	3%	-2%	* FY24E capex > FY23E on Al data center							
	YoY Growth %	400/	4.407	470/	400/	407	001	400/								
	Total	19%	11%	17%	13%	-1%	-6%	-10%	* Expanding AI data center solutions with faster an							
	Cloud	24%	14%	-14%	-6%	-28%	-17%	-5%	more efficient processing over Ethernet							
	Service provider	17%	-8%	28%	1%	-20%	-15%	-36%	*Routers and swithces widely used especially in							
Juniper	Enteprise	17%	32%	29%	38%	37%	8%	15%	internet service providers and large enterprises							
(JNPR US)	QoQ Growth %															
,	Total	11%	2%	-5%	4%	-2%	-2%	-10%								
	Cloud	13%	1%	-30%	17%	-13%	18%	-21%								
` ,	Service provider	11%	-10%	17%	-14%	-12%	-4%	-12%								
	Enteprise	10%	16%	-7%	16%	10%	-9%	-1%								
torage																
	YoY Growth %															
	Total	-35%	-39%	-34%	-39%	-29%	-18%	-10%	*To stimulate demand through new hard drives,							
	HDD	-38%	-41%	-37%	-43%	-27%	-17%	-8%	providing high-capacity storage space at lower cos							
Seagate	Systems, SSD & Other	5%	-24%	8%	0%	-40%	-24%	-25%	than competitors							
(STX US)	QoQ Growth %								* Expect slow China market recovery; Clients expe							
(01/100)	Total	-23%	-7%	-1%	-14%	-9%	7%	7%	boost in Chinese high-capacity local demand in							
	HDD	-26%	-6%	-4%	-14%	-6%	7%	6%	2H24E							
	Systems, SSD & Other	21%	-15%	14%	-15%	-27%	8%	12%	*Sustained recovery of PC/cloud will boost data							
	YoY Growth %															
	Total	-26%	-36%	-36%	-41%	-26%	-2%	18%	*To adopt a proactive inventory management							
	Cloud	-18%	-36%	-32%	-39%	-52%	-13%	26%	strategy, wider range of products, cost control							
	Client	-34%	-41%	-44%	-51%	-7%	3%	10%	measures, and focusing on research and							
Western	Consumer	-30%	-25%	-29%	-19%	8%	6%	15%	development							
Digital	QoQ Growth %	3070	_5,0	_5,5	. 5 / 0	3,0	0,0	.370	*Expect to divest flash memory biz before 2H24E							
(WDC US)	Total	-17%	-17%	-10%	-5%	3%	10%	9%	* Negotiations with Japan's Kioxia to merge the							
, 5 5 5 7	Cloud	12%	-33%	-2%	-18%	-12%	23%	42%	business came to a standstill and actively restarting							
		14/0	00/0	2/0	1070	12/0	2070	74 /0	I a control in the second control, restarting							
	Client	-41%	-11%	-10%	6%	11%	-2%	-4%	merger negotiation							

Source: Company announcement, Bloomberg, CMBIGM



Al PC/Smartphone supply chain:

Samsung: Galaxy S24 and Galaxy Ring/bendable concept smartphone at MWC

Samsung launched its first AI smartphone Galaxy S24 on 18 January, and reached 1mn unit sales by 27 February, becoming the quickest S-Series smartphone to reach 1mn unit sales in the history. Galaxy S24 enables multiple mobile AI functions including circle to search with Google, live translation on the phone call, chat assist with messages and photo assist with AI-enhanced HDR previews. Compared with the last version, Galaxy S24 has its CPU and GPU capacity improved by 20% and 30%. For China version of Galaxy S24, it corporates with Baidu AI and based on the Ernie Bot (Wen Xin Yi Yan).

Figure 3: Samsung's bendable concept phone



Figure 4: Samsung's Galaxy Ring



Source: CNET, CMBIGM

Source: Peng Pai News, CMBIGM

At MWC 2024, Samsung showcased its bendable smartphone concept with OLED cling band. It features a flexible OLED screen that can serve as both a regular smartphone and a smartwatch. It can track health metrics like a smartwatch while serving other functions as a typical smartphone. Samsung also launched its Galaxy Ring for health tracking. It will track sleep, heart rate, breathing rate, among others. And it is Android OS-compatible.

Honor: Newly launched Magic OS 8.0

Honor showcased Magic OS 8.0, which brings a MagicLM on-device LLM with 7bn parameters and compressed memory occupancy from 6GB to 3.5GB. Other features came with Magic OS 8.0 is called Magic Portal which leverages Honor's LLM and IUI to offer context-based app and services recommendations. In addition to smartphones, Honor also showcased its first AI PC product MagicBook Pro 16 at the MWC event.

Xiaomi: Al enabled imaging engine for Xiaomi 14 Ultra

Xiaomi showcased the camera features performance for the latest Xiaomi 14 Ultra model. Xiaomi designed an AI ISP for the Xiaomi Imaging Engine to allow it to use more efficiently computational photography algorithms. The AI ISP is integrated in the phone's Hyper OS to expand its data processing capabilities and AI computational performance.

Figure 5: Honor's MagicLM on device



Source: Honor website, CMBIGM

Figure 6: Xiaomi's 14 Ultra with Al imaging engine



Source: Xiaomi website, CMBIGM



OPPO: Find X7 Ultra Al smartphone with enhanced photography, Al smart glasses

OPPO released AI smart glasses at MWC 2024, which can connect to OPPO phones to access the company's AndesGPT LLM. OPPO also collaborated with Qualcomm and startup AlpsenTek to introduce a new Al Motion algorithm based on Hybrid Vision Sensing (HVS) technology, for photography and videography of high-speed moving objects.

OPPO's latest Find X7 Ultra was showcased at MWC 2024, featuring the new Al Eraser and other AI features. Furthermore, OPPO announced its smartphone users will soon be able to connect their phones to Microsoft Copilot. Ahead of MWC 2024, OPPO announced the establishment of APPO AI Center and released the OPPO AI Smartphone White Paper.

Figure 7: OPPO's Al smart glasses Air Glass 3



Source: VR Tuo Luo, CMBIGM

Figure 8: Meizu 21 Pro model



Source: Mei Zu website, CMBIGM

Meizu: Lastest smartphone with Al features, full commitment to Al

Meizu has unveiled its latest smartphone, the Meizu 21 Pro, at the MWC 2024. The device is powered by the Qualcomm Snapdragon 8 Gen 3 processor and runs on Flyme 10.5 OS, incorporating AI features. The company has announced a strategic adjustment to cease its traditional smartphone business and transform into AI terminals prior to the MWC event.

Transsion/Tecno: showcased multiple innovative products

Transsion's subsidiary Tecno showcased its robot dog "Dynamic 1" to aid with smart home entertainment, training and education. It also unveiled the Pova 6 Pro 5G smartphone and the Pocket Go AR gaming glasses at the MWC. For the concept smartphone model, Tecno showed off a rollable phone which features a display neatly tucked inside the device's frame unlike other normal foldable phone feature.

AI PC:

Lenovo-Al PCs for business and concept transparent PCs

Lenovo showcased its transparent conceptual laptop with transparent Micro-LED display and keyboard. Its subsidiary smartphone brand Motorola also showcased a bendable smartphone which had been unveiled earlier at Lenovo Tech World 2023. Al PC was Lenovo's key theme for this year's MWC with its latest enterprise laptop lineup of ThinkPad T14, T14s, T16, X12 and variants. The devices are powered by Intel's Core Ultra Processors and run on Windows 11 facilitating Al features on the device.



Figure 9: Lenovo's transparent PC



Source: Lenovo, CMBIGM

Figure 10: Lenovo's presence at MWC 2024



Source: Lenovo, CMBIGM

Apple: Generative AI to all devices

In the latest earnings call, Tim Cook mentioned that the company is working on generative Al software features that will present to customers later this year, and market expected an update for iOS 18. From advanced photo manipulation to word processing enhancements, Al software features have been the major key selling points of Android's latest smartphones.

Apple's current AI chief, John Giannandrea, is leading LLM development. There has not been clear strategy reported regarding the generative AI product development for Apple, but we expect Apple to focus on Siri enhancements, software that generates videos and images and multimodal AI technology that works with images, videos and text. According to media, Apple aims for a smarter version of Siri that is deeply integrated with AI, which will have better natural conversation capabilities and improved user personalization.

Figure 11: Latest AI enabled functions on iPhone

Function	Details
Photos	Use machine learning to enhance photo that are taken with iPhone. This includes Deep Fusion for cutting down on noise in images and iPhone 15 portait mode tools.
Spotlight search	The feature that searches for spotlight throughout the iOS operating system that is powered by AI.
Visual lookup	The feature that lets the iPhone detect the content in photos.
Crash detection and fall detection	Use machine learning to determine whether someone has been in a crash or had a fall based on the information collected by various sensors.
Auto correct	Autocorrect system and word suggestion options are powered by machine learning.

Source: Company data, CMBIGM

Figure 12: Progress made by key software application providers on integrating AI functions into existing products

3 F									
Company	Key Al application progress								
Google	Developed Gemini (previously named Bard), a chat-based Al tool. Google has integrated generative Al into the search products and apps. Recently launched Gemini Android version.								
Microsoft	Partnered with OpenAl for a version of ChatGPT that is integrated with its Bing search engine, enabled on PC and smartphone devices.								
Amazon	Currently working on enhance its Alexa voice assistant with generative AI.								
Meta	Has already incorporated generative AI into serveral of its apps, such as WhatApp and Messenger.								

Source: Company data, CMBIGM



Figure 13: Peers' valuation

<u> </u>			Market Cap	Price	P/E	(x)	P/B	(x)	ROE	(%)	Perf.
Company	Ticker	Rating	(US\$ mn)	(LC)	FY23E	FY24E			FY23E		YTD
Brand											
Apple	AAPL US	NR	2,774,288	179.66	29.6	27.2	47.8	36.8	169.4	146.0	(6.7)
Xiaomi	1810 HK	BUY	42,803	13.34	16.2	15.5	1.9	1.7	11.5	10.9	(14.5)
Transsion	688036 CH	NR	18,772	167.56	25.5	21.5	6.9	5.7	28.4	27.0	21.1
Samsung	005930 KS	NR	335,729	74,900	45.1	16.6	1.4	1.3	3.1	8.0	(4.6)
LG	066570 KS	NR	11,538	93,900	11.4	7.8	0.8	0.7	7.1	9.7	(7.8)
20	000070110		Average	00,000	25.6	17.7	11.8	9.2	43.9	40.3	(2.5)
ODM/EMS									1010		(=)
BYDE	285 HK	BUY	8,927	31.00	15.9	11.6	2.1	1.8	13.4	15.7	(15.3)
Luxshare	002475 CH	BUY	27,859	28.01	18.1	14.3	2.0	1.8	10.9	12.3	(18.7)
Hon Hai Precision	2317 TT	NR	46,831	106.50	11.1	9.9	1.0	0.9	8.9	9.4	1.9
	20		Average	.00.00	15.0	11.9	1.7	1.5	11.1	12.5	(10.7)
Optics											(1011)
Sunny Optical	2382 HK	HOLD	7,275	51.90	44.3	24.5	2.2	2.1	5.0	8.6	(26.7)
Q Tech	1478 HK	BUY	478	3.16	11.3	5.9	0.7	0.6	5.9	10.3	(28.8)
Truly	732 HK	NR	299	0.74	-	_	-	-	-	-	(7.5)
Cowell	1415 HK	NR	2,069	18.98	32.3	18.7	4.8	3.9	14.9	22.3	(17.7)
Largan	3008 TT	NR	10,859	2,565	18.5	16.1	2.1	1.9	11.5	12.5	(10.6)
Genius	3406 TT	NR	1,504	420.50	16.2	15.5	2.2	2.0	14.0	13.7	(10.0)
O-Film	002456 CH	NR	4,023	8.89	-	57.0	10.0	9.4	(8.1)	8.8	2.1
Lg Innotek	011070 KS	NR	3,643	205,000	8.5	7.3	1.0	0.9	12.5	13.1	(14.4)
Ly IIIIIotek	01107013	INIX	Average	203,000	21.9	20.7	3.3	3.0	8.0	12.7	(13.0)
Acoustics/Haptics			Average		21.5	20.7	3.3	3.0	0.0	12.7	(13.0)
AAC Tech	2018 HK	HOLD	3,109	20.30	35.7	20.5	1.0	0.9	2.7	4.6	(12.5)
Goertek	002241 CH	BUY	8,183	17.24	40.1	20.3	1.9	1.7	4.6	7.8	(12.5)
Luxshare	002241 CH 002475 CH	BUY	27,859	28.01	18.1	14.3	2.0	1.7	10.9	12.3	(17.9)
	2439 TT	NR	800	115.00	18.4	16.7	1.9	1.8	10.9	11.0	5.0
Merry Knowles	KN US	NR	1,489	16.61	18.6	14.9	1.9	1.0	10.0	-	
		NR						2.2			(7.3)
Nidec	6594 JP	INK	22,861	5,767	41.5	21.3	2.5		7.0	11.4	1.3
Connector			Average		28.7	18.3	1.8	1.7	7.0	9.4	(8.4)
	6088 HK	BUY	1,025	1.10	7.6	6.0	0.4	0.4	5.3	6.2	(6.0)
FIT Hon Teng Luxshare			•			6.0					(6.8)
TE	002475 CH	BUY	27,859	28.01	18.1	14.3	2.0	1.8	10.9	12.3	(18.7)
	TEL US	NR	44,387	143.74	21.4	19.0	4.0	3.3	19.1	18.5	2.3
Amphenol	APH US	NR	66,470	110.81	37.4	33.6	8.3 3.7	7.0	24.4	22.8	11.8
Casina			Average		21.1	18.2	3.7	3.1	14.9	14.9	(2.8)
Casing	005 1116	DLIV	0.007	24.00	45.0	44.0	0.4	4.0	40.4	45.7	(45.0)
BYDE	285 HK	BUY	8,927	31.00	15.9	11.6	2.1	1.8	13.4	15.7	(15.3)
Tongda	698 HK	BUY	114	0.09	5.1	3.2	0.1	0.1	2.3	3.5	(10.7)
TK Group	2283 HK	BUY	144	1.35	4.8	3.6	0.6	0.6	13.3	16.3	(4.3)
Ju Teng	3336 HK	NR	181	1.18	-	-	-	-	-	-	0.9
Everwin	300115 CH	NR	1,697	10.15	71.0	19.0	2.1	1.9	2.2	9.4	(23.4)
Lens Tech	300433 CH	NR	8,659	12.51	20.1	15.4	1.4	1.3	6.8	8.4	(5.2)
Catcher	2474 TT	NR	4,284	198.50	11.2	16.0	8.0	8.0	7.2	4.7	2.3
Jabil	JBL US	NR	18,772	147.18	17.3	16.3	6.9	15.5	43.5	51.0	15.5
			Average		20.8	12.2	2.0	3.1	12.7	15.6	(5.0)
Hinge	0040444	1101.5	0.400	00.00	05.7	20.5	4.0			4.0	(40.5)
AAC Tech	2018 HK	HOLD	3,109	20.30	35.7	20.5	1.0	0.9	2.7	4.6	(12.5)
Jiangsu Gian	300709 CH	NR	815	31.55	28.2	20.8	2.8	2.5	11.1	13.2	1.2
KH Vatec	060720 KS	NR	236	13,250	7.7	8.4	1.2	1.1	15.6	13.1	(9.8)
Foseltek	6805 TT	NR	1,733	797.00	77.0	35.1	12.5	9.6	15.5	28.7	108.4
Jarlytec	3548 TT	NR	540	257.50	30.7	17.8	-	-	11.9	19.9	35.9
NBTM	600114 CH	NR	1,223	14.28	42.9	23.3	3.4	3.2	7.9	13.8	(7.8)
Dongguan Eontec	300328 CH	NR	498	5.19	-	-	-	-	-	-	(25.4)
			Average		37.0	21.0	4.2	3.4	10.8	15.5	12.8

Source: Bloomberg, CMBIGM



Figure 14: Peers' valuation

			Market Cap	Price	P/E (x)	P/B (x)	ROE ((%)	Perf
Company	Ticker	Rating	(US\$ mn)	(LC)	FY23E	FY24E	FY23E	FY24E	FY23E	FY24E	YTE
PC/Server	TICKEI	rtating	(554)	(_0)							
Lenovo	992 HK	NR	15,441	9.74	9.0	16.6	2.4	2.5	30.6	16.2	(10.8
Dell	DELL US	NR	88,658	124.59	16.7	18.7		-	(179.3)	(156.9)	62.9
HP Enterprise	HPE US	NR	20,225	15.56	7.3	8.2	1.0	0.9	13.7	11.2	(8.4
HP Inc	HPQ US	NR	28,777	29.41	8.9	8.6	-	-	(139.1)	(247.6)	(2.3
ASUSTeK	2357 TT	NR	10,767	457.00	20.1	14.1	1.5	1.5	7.1	9.7	(6.6
Inspur	000977 CH	NR	8,832	437.00	38.5	28.7	3.4	3.1	8.6	10.6	30.
•		NR	10,961	53.92	41.5	32.9	4.2	3.1	10.3	11.8	36.
Dawning	603019 CH	INIX	· ·	33.92	20.3	18.3	2.5	2.3	(35.4)	(49.3)	14.
0011/0511			Average		20.3	10.3	2.3	2.3	(33.4)	(49.3)	14.
ODM/OEM Foxconn Industrial	604429 CH	ND	60.756	22.02	10.6	15.5	2.4	0.7	10.0	177	AE I
	601138 CH	NR	60,756	22.02	18.6	15.5	3.1	2.7	16.6	17.7	45.6
Super Micro	SMCI US	NR	50,647	905.48	80.0	41.8	24.6	14.8	36.3	43.0	218.
Huaqing	603296 CH	NR	7,933	78.69	21.4	19.2	2.7	2.5	14.7	13.6	(1.5
Quanta	2382 TT	NR	29,283	239.00	23.5	18.5	5.1	4.5	21.9	25.4	6.
Wistron	3231 TT	NR	10,716	116.50	28.1	17.5	3.1	2.6	11.4	15.7	18.2
Niwynn	6669 TT	NR	•	2,445.00	37.0	22.9	10.1	7.9	28.7	38.0	34.0
nventec	2356 TT	NR	6,327	55.60	34.6	25.2	3.4	3.2	9.6	12.7	5.
GigaByte	2376 TT	NR	7,148	354.50	43.0	23.6	6.1	5.3	14.2	22.2	33.
			Average		35.8	23.0	7.3	5.4	19.2	23.5	45.
Switch/Storage											
Cisco	CSCO US	NR	195,981	48.40	12.7	13.0	4.5	4.1	35.1	31.3	(4.2
Arista	ANET US	NR	89,957	287.74	43.9	38.7	13.0	9.9	33.0	27.4	22.
Juniper	JNPR US	NR	12,122	37.37	16.3	16.8	2.8	2.6	16.8	15.4	26.
Keysight	KEYS US	NR	27,472	157.07	19.1	24.9	5.5	5.5	30.6	20.5	(1.3
Seagate	STX US	NR	20,356	97.16	859.8	134.6	-	-	(2.6)	(1.4)	13.
Western Digital	WDC US	NR	20,953	64.30	-	-	1.8	2.0	(11.2)	(6.0)	22.
			Average		141.6	37.7	5.0	4.4	17.8	15.9	15.2
EMS/Distributor											
Flextronics	FLEX US	NR	12,214	29.00	12.6	11.5	3.3	2.1	26.3	18.1	30.9
Jabil	JBL US	NR	18,772	147.18	17.3	16.3	6.9	15.5	43.5	51.0	15.
Arrow	ARW US	NR	6,468	120.19	7.1	10.0	1.2	1.1	16.1	12.8	(1.7
Avnet	AVT US	NR	4,299	47.57	6.2	9.1	0.9	0.8	14.8	9.1	(5.6
			Average		10.8	11.7	3.1	4.9	25.2	22.8	9.8
Substrate											
Unimicron	3037 TT	NR	8,732	180.50	23.9	20.8	3.0	2.7	12.8	14.7	2.0
lbiden	4062 JP	NR	· ·	7,002.00	20.3	27.7	2.4	2.2	12.2	8.3	(10.4
NYPCB	8046 TT	NR	4,284		23.4	21.4	2.6	2.5	11.4	12.0	(16.9
02	33.3		Average	200.00	22.5	23.3	2.7	2.5	12.1	11.7	(8.2
РСВ			, ivolugo								(0.2
WUS Printed	002463 CH	NR	7,512	28.34	36.8	27.1	5.6	4.7	15.9	18.1	28.1
Victory Giant	300476 CH	NR	3,017	25.18	25.3	18.4	2.9	2.5	11.1	14.2	36.
Gold Circuit	2368 TT	NR	4,041	259.00	35.1	20.0	7.8	6.1	23.8	33.1	18.8
Gold Circuit	2300 11	INIX	Average	233.00	31.1	20.0 22.0	4.8	4.0	15.3	19.1	21.9
Transceiver			Average		31.1	22.0	4.0	4.0	13.3	13.1	21.3
	200200 CH	ND	10 172	10E 00	62.0	24.4	0.5	7.4	15.4	25.0	46.7
Innolight	300308 CH	NR	18,473	165.66	63.9	31.1	9.5	7.4	15.4	25.0	
TFC Optical	300394 CH	NR	7,772	141.70	80.6	47.6	17.8	13.8	22.6	29.8	54.8
Eoptolink	300502 CH	NR	6,848	69.45	73.3	38.7	9.1	7.5	12.2	19.3	40.
Lumentum	LITE US	NR	3,403	50.49	11.2	46.4	2.3	2.7	18.0	5.9	(3.7
			Average		56.0	40.8	8.5	7.0	15.3	18.0	33.2
Power Suppply											
Delta	2308 TT	NR	24,183	293.50	22.8	21.1	4.0	3.6	16.6	16.3	(6.4
Lite-on	2301 TT	NR	8,509	114.00	17.3	16.4	3.0	2.9	18.3	18.0	(2.6
			Average		20.0	18.8	3.5	3.2	17.4	17.1	(4.5
Thermal											
Foxconn Industrial	601138 CH	NR	60,756	22.02	18.6	15.5	3.1	2.7	16.6	17.7	45.0
Sunowealth	2412 TT	NR	29,897	121.50	25.2	24.8	2.4	2.4	9.8	9.9	1.3
AVC	3017 TT	NR	6,736	554.00	40.3	30.8	10.1	8.3	28.4	30.9	64.6
			Average		28.0	23.7	5.2	4.5	18.3	19.5	37.2

Source: Bloomberg, CMBIGM



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