

### **Technology**

# Implications of Nvidia H20 export restriction for Al server/component supply chain

Nvidia (NVDA, NR) disclosed (link) that the U.S. government informed on April 9 that H20 chips will require a license for export to China and other D:5 countries, and the new requirement will be in place indefinitely. Driven by DeepSeek's lowcost AI models since late Jan, we see accelerated deployments of H20 servers in China, and several server ODM/component suppliers also guided strong order demand from Chinese CSPs for H20-related products. In terms of impact, we estimate Nvidia's inventory writedown of US\$5.5bn implies <u>US\$14bn sales (GPM</u> 60%), 1.1mn H20 chips (ASP US\$12.5k) and 138k H20 AI servers (8 chips/ server). For 2024, we estimate H20 Al servers accounted for ~30% of China Al server market, and thus domestic Al server/component suppliers may be impacted by the new restrictions in near term, such as Lenovo, FII, Huagin, BYDE and Luxshare. On the other hand, we believe China NDRC's recent new energy-efficiency rules (link) on H20 chip restriction suggest that the Chinese government is confident on advanced node capacity expansion and stronger support to domestic AI computing ecosystem. In longer term, we believe the H20 restriction will boost demand for AI servers with domestic chips, such as Huawei Ascend and non-Huawei Al chips (e.g. Cambricon/Hygon/Enflame/MetaX/Biren), and accelerate development of domestic AI computing supply chain.

- US restriction on Nvidia H20 export to China. Nvidia disclosed that the U.S. government informed it on April 9 that H20 chips would require a license for sales to China, and that on April 14, those rules will be in place indefinitely. Chinese companies have been ramping up orders for H20 server products driven by DeepSeek's models since 1Q25. We estimate Nvidia's inventory writedown of US\$5.5bn is equivalent to 1.1mn H20 chips and 138k H20 Al servers (eight chips per server). For 2024, we estimate ~1mn H20 chips/125k H20 Al servers were shipped to China, and H20 Al servers accounted for ~30% of China Al server market (420k units). In 1Q25, media (link) reported that Chinese CSPs placed US\$16bn worth of orders for H20 chips, implying 1.3mn H20 chips and 160k Al servers.
- Impact on AI server/component supply chain. Over the past month, there have been mixed media reports about the US's new regulations, including the US's suspension of H20 export ban plan (link) and Nvidia's plan to build AI servers worth \$500bn in the US in next four years (link), which have alleviated market concerns on H20 export ban and US tariff impact on Nvidia supply chain. Therefore, we believe the US's latest H20 export restriction has come in earlier than expected, which could weigh on domestic server supply chain sentiment in the near term, including AI server brands/ODM/component names such as Lenovo, FII, Huaqin, BYDE and Luxshare. In long term, we expect Chinese CSPs will accelerate adoption of AI servers with domestic chips and bolster development of domestic AI computing supply chain.

#### **Valuation Table**

			Mkt Cap	TP	Upside/	P/E (	(x)	P/B	(x)	ROE	(%)
Name	Ticker	Rating	(US\$ mn)	(LC)E	Oownside F	Y25E F	Y26E	FY25E F	Y26E F	Y25E F	Y26E
BYDE	285 HK	BUY	9,150	47.1	50%	10.7	8.6	1.7	1.5	16.3	17.7
Luxshare	002475 CH	BUY	29,109	55.09	87%	12.8	10.1	2.1	2.1	16.4	20.7
FIT Hon Teng	6088 HK	BUY	1,777	3.86	104%	6.9	4.7	0.6	0.6	9.0	11.7
Lenovo	992 HK	NR	12,489	-	-	8.5	7.9	1.9	1.6	23.8	22.5
FII	601138 CH	NR	46,752	-	-	11.1	9.5	2.0	1.8	18.2	18.7
Huaqin	603296 CH	NR	8,478	-	-	16.4	13.8	2.4	2.1	13.8	14.4

Source: Company data, CMBIGM estimates. Data as of 04/15/2025 close.

## OUTPERFORM (Maintain)

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#### Figure 1: Nvidia' filings on H20 export restrictions

Item 8.01 Other Events.

On April 9, 2025, the U.S. government, or USG, informed NVIDIA Corporation, or the Company, that the USG requires a license for export to China (including Hong Kong and Macau) and D:5 countries, or to companies headquartered or with an ultimate parent therein, of the Company's H20 integrated circuits and any other circuits achieving the H20's memory bandwidth, interconnect bandwidth, or combination thereof. The USG indicated that the license requirement addresses the risk that the covered products may be used in, or diverted to, a supercomputer in China. On April 14, 2025, the USG informed the Company that the license requirement will be in effect for the indefinite future.

The Company's first quarter of fiscal year 2026 ends on April 27, 2025. First quarter results are expected to include up to approximately \$5.5 billion of charges associated with H20 products for inventory, purchase commitments, and related reserves.

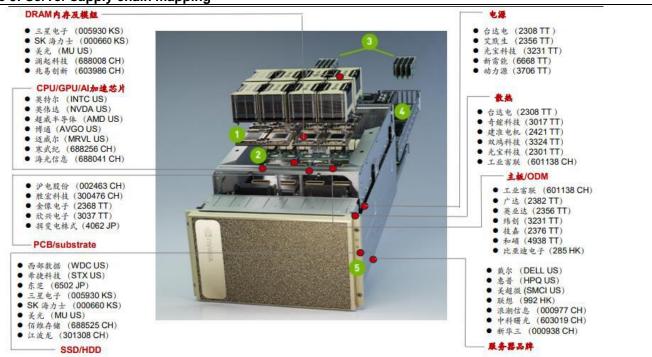
Source: US SFC, CMBIGM

Figure 2: Analysis of Nvidia's H20 restriction and inventory writedown impact

•		•	•
	2024	1Q25 (China CSP order)	Inventory Writedown
H20 Inventory (US\$ mn)	-	-	5,500
H20 Sales (US\$ mn)	12,500	16,000	13,750
H20 ASP (US\$ k)	12.5	12.5	12.5
H20 chip - shipment (k units)	1,000	1,280	1,100
H20 Al server - shipment (k units)	125	160	138

Source: Company data, CMBIGM estimates

Figure 3: Server supply chain mapping



Source: Company data, CMBIGM



Figure 4: Peers valuation

Company   Ticker   CUSS mn   CLC   FY25E   FY26E   F	nce	Performance			ROE (%)		P/B (	k)	P/E (	Price	Mkt Cap		
ServerPC	% YTD (%)	3M%	1M%							(LC)		Ticker	Company
Lenowo   992 HK   12,499   7.81   8.5   7.9   1.9   1.6   23.8   22.5   (32.7)   (16.6)   C2.4   HPE   DELL US   50.658   85.49   10.9   9.3   - 76.7   (16.64   1,027.0   (10.6)   (22.4   HPE   HPE US   19,717   15.01   8.3   7.3   0.8   0.7   9.3   9.8   (3.9)   (3.9)   (3.5)   (3.5)   HP Inc   HPE US   22,390   23.74   6.8   6.5   - 1   (30.7)   (3.5)													
HPE	9) (22.5)	(15.9)	(32.7)	22.5	23.8	1.6	1.9	7.9	8.5	7.81	12,489	992 HK	Lenovo
HP Inc	4) (25.8)	(22.4)	(10.6)	1,027.0	(166.4)	76.7	-	9.3	10.9	85.49	59,658	DELL US	Dell
Super Micro	9) (29.7)	(35.9)	(3.9)	9.8	9.3	0.7	0.8	7.3	8.3	15.01	19,717	HPE US	HPE
ASUSTEK 257 TT 12,750 558,00 11.7 10.2 1.5 1.5 1.3 0 15.1 (8.2) (7.0) Inspur 000977 CH 9,437 46.97 24.3 19.6 3.1 2.7 13.0 13.8 (20.8) (5.8) abwaming 603019 CH 13,084 65.51 37.6 31.2 4.2 3.8 11.5 12.4 (8.3) 2.4 Average 15.1 12.6 2.4 12.8 (46.2) 137.1 (15.2) (12.9) CDIM/OEM  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2) Huaqin 603296 CH 8.478 61.15 16.4 13.8 2.4 2.1 13.8 14.4 (25.3) (14.3) BYDE 285 HK 9,150 31.50 10.7 8.6 1.7 1.5 16.3 17.7 (37.2) (17.0) Quanta 238 TT 27,151 228.50 12.6 10.5 3.7 3.2 31.1 32.3 (10.9) (12.1) Wistron 2321 TT 8.849 99.30 11.9 9.8 2.0 18.8 17.5 16.3 17.7 (37.2) (17.0) Wistron 2321 TT 8.849 99.30 11.9 9.8 2.0 18.8 17.5 18.5 (5.0) (6.1) Wistron 2321 TT 4,503 218.50 12.3 10.2 3.5 3.0 30.2 29.9 (2.1) (21.5) (19.44) (19.4	6) (27.2)	(26.6)	(16.4)	(35.8)	(303.7)	-	-	6.5	6.8	23.74	22,380	HPQ US	HP Inc
Inspur		7.6	(20.6)	31.9	29.9	2.3	3.1	9.0	12.9	33.48	19,870	SMCI US	Super Micro
Inspur	0) (9.4)	(7.0)	(8.2)	15.1	13.0	1.5	1.5	10.2	11.7	558.00	12,750	2357 TT	ASUSTeK
DDM/ODM   DDM/		(5.8)	(20.8)	13.8	13.0	2.7	3.1	19.6	24.3	46.97	9,437	000977 CH	Inspur
FII		2.4	(8.3)	12.4	11.5	3.8	4.2	31.2	37.6	65.51	13,084	603019 CH	Dawning
Dom/OEM		(12.9)		137.1	(46.2)	12.8	2.4	12.6	15.1		Average		
Huaqin 60296 CH 8,478 61.15 16.4 13.8 2.4 2.1 13.8 14.4 (25.3) (14.3) BYDE 285 HK 9,150 31.50 10.7 8.6 1.7 1.5 16.3 17.7 (37.2) (17.0) Quanta 2382 TT 27,151 228.50 12.6 10.5 3.7 3.2 31.1 32.3 (10.9) (12.1) Wistron 3231 TT 8,849 99.30 11.9 9.8 2.0 18 17.5 18.5 (6.0) (5.0) Wisynn 6669 TT 10,748 1,880.00 12.1 10.2 3.5 3.0 30.2 29.9 (2.1) (21.5) Inventec 2356 TT 4,86 40.65 15.0 13.5 2.1 2.0 13.5 14.7 (12.6) (17.4) GigaByte 2376 TT 4,603 218.50 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,503 218.50 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,886 40.65 15.0 13.5 12.1 2.0 13.5 14.7 (12.6) (17.4) QigaByte 2376 TT 4,808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4,808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4.808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4.808 40.65 15.0 13.5 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8) QigaByte 2376 TT 4.808 40.65 12.0 12.8 10.2 12.1 16.4 20.7 (28.2) (25.0) QigaByte 2376 TT 4.808 40.2 12.8 10.1 12.1 12.1 16.2 12.1 16.4 20.7 (28.2) (25.0) QigaByte 2376 TT 4.808 40.2 12.9 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0													ODM/OEM
BYDE	2) (19.8)	(17.2)	(18.9)	18.7	18.2	1.8	2.0	9.5	11.1	17.25	46,752	601138 CH	FII
Quanta         2382 TT         27,151         228.50         12.6         10.5         3.7         3.2         31.1         32.3         (10.9)         (12.1)           Wistron         3231 TT         8,849         99.30         11.9         9.8         2.0         1.8         17.5         18.5         (5.0)         (5.0)           Wiwynn         6669 TT         10,748         1,880.00         12.1         10.2         3.5         3.0         30.2         29.9         (2.1)         (21.5)         (17.4)         (16.0)         (17.4)         (12.8)         (17.4)         (12.8)         (17.4)         (12.8)         (17.4)         (12.8)         (17.4)         (12.8)         (17.4)         (12.8)         (17.4)         (12.8)         (17.4)         (12.8)         (18.8)         (2.5)         (2.2)         (21.9)         (22.3)         (16.0)         (14.7)         (12.8)         (17.4)         (18.8)         (2.2)         (20.3)         21.1         (16.0)         (14.7)         (18.9)         (18.7)         (18.7)         (12.8)         (18.7)         (18.7)         (19.1)         (11.7)         (13.7)         (13.3)         (12.2)         (18.7)         (19.1)         (11.7)         (13.3)         (12.2)		(14.3)		14.4	13.8	2.1		13.8	16.4	61.15	8,478	603296 CH	Huaqin
Wistron   3231 TT		(17.0)	(37.2)	17.7	16.3	1.5	1.7	8.6	10.7	31.50	9,150	285 HK	BYDE
Wiwynn	1) (20.4)	(12.1)	(10.9)	32.3	31.1	3.2	3.7	10.5	12.6	228.50	27,151	2382 TT	Quanta
Wiwynn   6669 TT		(5.0)	(5.0)	18.5	17.5	1.8	2.0	9.8	11.9	99.30	8,849	3231 TT	Wistron
GigaByte 2376 TT 4,503 218.50 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8)   Average 12.8 10.8 2.5 2.2 20.3 21.1 (16.0) (14.7)   Connector   FIT Hon Teng 6088 HK 1,777 1.89 6.9 4.7 0.6 0.6 0.6 9.0 11.7 (31.3) (43.9)   Luxshare 002475 CH 29,109 29.43 12.8 10.1 2.1 2.1 16.4 20.7 (28.2) (25.0)   Amphenol APH US 79,687 65.76 28.7 25.6 7.0 6.0 26.7 25.5 4.4 (5.9)   Average 16.1 13.8 3.2 2.9 17.7 19.2 (16.6) (21.1)   Switch/Storage   Cisco CSCO US 227,558 57.20 15.4 14.3 4.9 4.5 33.0 33.2 (5.5) (4.4)   Arista ANET US 92,314 73.20 29.6 24.9 7.1 5.6 26.3 24.7 (12.3) (38.0)   Juniper JNPR US 11,552 34.67 16.9 15.6 2.3 2.2 14.2 14.5 (3.0) (10.7)   Keysight KEYS US 23,656 136.89 19.5 17.2 4.4 3.9 19.8 21.1 (10.0) (17.1)   Seagate STX US 15,243 72.00 9.8 7.7 - 44.4 (143.5) 4,846.2 (18.1) (24.3)   Western Digital WDC US 12,497 35.93 7.4 7.5 - 42.2 25.4 56.6 (19.3) (26.0)   Average 17.6 15.2 4.4 8.7 1.5 629.4 (9.3) (18.7)   Substrate   Unimicron 3037 TT 4,066 86.40 13.7 8.3 1.3 1.2 9.4 14.8 (18.5) (39.2)   Ibiden 4062 JP 3,506 3,550.00 16.4 14.2 1.0 0.9 6.1 7.0 (19.1) (21.0)   NYPCB 8046 TT 1,785 89.80 30.1 13.2 1.2 1.2 4.8 8.5 (30.4) (34.9)   Average 20.1 11.9 1.2 1.1 6.8 10.1 (22.7) (31.7)   PCE   WUS Printed 002463 CH 8,449 71.77 20.1 15.1 1.9 3.4 2.8 24.3 24.0 (26.3) (32.2)   Gold Circui 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0)   Average 15.7 12.3 4.1 5.4 3.3 25.1 25.2 (17.6) 3.9   POwer Supply   Enda 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7) (31.7)   POWER Supply   Enda 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7) (17.3)   Average 15.7 12.3 4.1 13.3 2.2 1.2 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 13.3 3.2 1.2 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 1.9 2.2 2.1 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 1.9 2.2 2.1 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 1.9 2.2 2.1 16.8 18.2 (15.7) (17.3)   Average 15.7 12.5 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0)   Average 15.7 12.5 11.1 9.5 2.0 18.8 18.2 18.7 (14.5) (22.7) (17.3)   Average 15.7 12.5 11		(21.5)			30.2				12.1			6669 TT	Wiwynn
GigaByte 2376 TT 4,503 218.50 12.3 10.2 2.6 2.2 21.9 22.3 (16.0) (12.8)   Average 12.8 10.8 2.5 2.2 20.3 21.1 (16.0) (14.7)   Connector   FIT Hon Teng 6088 HK 1,777 1.89 6.9 4.7 0.6 0.6 0.6 9.0 11.7 (31.3) (43.9)   Luxshare 002475 CH 29,109 29.43 12.8 10.1 2.1 2.1 16.4 20.7 (28.2) (25.0)   Amphenol APH US 79,687 65.76 28.7 25.6 7.0 6.0 26.7 25.5 4.4 (5.9)   Average 16.1 13.8 3.2 2.9 17.7 19.2 (16.6) (21.1)   Switch/Storage   Cisco CSCO US 227,558 57.20 15.4 14.3 4.9 4.5 33.0 33.2 (5.5) (4.4)   Arista ANET US 92,314 73.20 29.6 24.9 7.1 5.6 26.3 24.7 (12.3) (38.0)   Juniper JNPR US 11,552 34.67 16.9 15.6 2.3 2.2 14.2 14.5 (3.0) (10.7)   Keysight KEYS US 23,656 136.89 19.5 17.2 4.4 3.9 19.8 21.1 (10.0) (17.1)   Seagate STX US 15,243 72.00 9.8 7.7 - 44.4 (143.5) 4,846.2 (18.1) (24.3)   Western Digital WDC US 12,497 35.93 7.4 7.5 - 42.2 25.4 56.6 (19.3) (26.0)   Average 17.6 15.2 4.4 8.7 1.5 629.4 (9.3) (18.7)   Substrate   Unimicron 3037 TT 4,066 86.40 13.7 8.3 1.3 1.2 9.4 14.8 (18.5) (39.2)   Ibiden 4062 JP 3,506 3,550.00 16.4 14.2 1.0 0.9 6.1 7.0 (19.1) (21.0)   NYPCB 8046 TT 1,785 89.80 30.1 13.2 1.2 1.2 4.8 8.5 (30.4) (34.9)   Average 20.1 11.9 1.2 1.1 6.8 10.1 (22.7) (31.7)   PCE   WUS Printed 002463 CH 8,449 71.77 20.1 15.1 1.9 3.4 2.8 24.3 24.0 (26.3) (32.2)   Gold Circui 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0)   Average 15.7 12.3 4.1 5.4 3.3 25.1 25.2 (17.6) 3.9   POwer Supply   Enda 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7) (31.7)   POWER Supply   Enda 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7) (17.3)   Average 15.7 12.3 4.1 13.3 2.2 1.2 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 13.3 3.2 1.2 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 1.9 2.2 2.1 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 1.9 2.2 2.1 16.8 18.2 (15.7) (17.3)   Average 15.7 12.3 4.1 1.9 2.2 2.1 16.8 18.2 (15.7) (17.3)   Average 15.7 12.5 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0)   Average 15.7 12.5 11.1 9.5 2.0 18.8 18.2 18.7 (14.5) (22.7) (17.3)   Average 15.7 12.5 11	, , ,	(17.4)	(12.6)	14.7			2.1	13.5		40.65	4,486		•
Connector		(12.8)	(16.0)		21.9		2.6		12.3	218.50	4,503	2376 TT	GigaByte
Connector   FIT Hon Teng		(14.7)	` ,										0 ,
FIT Hon Teng		ì	ì										Connector
Luxshare         002475 CH         29,109         29.43         12.8         10.1         2.1         2.1         16.4         20.7         (28.2)         (25.0)           TE         TE US         38,649         129.54         16.1         14.7         3.0         2.8         18.7         19.1         (11.2)         (9.8)           Amphenol         APH US         79,687         65.76         28.7         25.6         7.0         60.0         26.7         25.5         4.4         (5.9)           Average         16.1         13.8         3.2         2.9         17.7         19.2         (16.6)         (21.1)           Switch/Storage           Cisco         CSCO US         227,558         57.20         15.4         14.3         4.9         4.5         33.0         33.2         (5.5)         (4.4)           Arista         ANET US         92,614         73.20         29.6         24.9         7.1         5.6         26.3         24.7         (12.3)         (38.0)         (10.7)           Keysight         KEYS US         23,656         136.89         19.5         17.2         4.4         3.9         19.8         21.1         (10.0)	9) (48.2)	(43.9)	(31.3)	11.7	9.0	0.6	0.6	4.7	6.9	1.89	1,777	6088 HK	
TE TEL US 38,649 129.54 16.1 14.7 3.0 2.8 18.7 19.1 (11.2) (9.8) Amphenol APH US 79,687 65.76 28.7 25.6 7.0 6.0 26.7 25.5 4.4 (5.9) Average 16.1 13.8 3.2 2.9 17.7 19.2 (16.6) (21.1) Switch/Storage  Cisco CSCO US 227,558 57.20 15.4 14.3 4.9 4.5 33.0 33.2 (5.5) (4.4) Arista ANET US 92,314 73.20 29.6 24.9 7.1 5.6 26.3 24.7 (12.3) (38.0) Juniper JNPR US 11,552 34.67 16.9 15.6 2.3 2.2 14.2 14.5 (3.0) (10.7) Seagate STX US 15,243 72.00 9.8 7.7 - 44.4 (143.5) 4.846.2 (18.1) (24.3) Western Digital WDC US 12,497 35.93 7.4 7.5 - 2.2 25.4 56.6 (19.3) (26.0) Average 17.6 15.2 4.4 8.7 1.5 629.4 (9.3) (18.7) Substrate  Unimicron 3037 TT 4,066 86.40 13.7 8.3 1.3 1.2 9.4 14.8 (18.5) (39.2) Ibiden 4062 JP 3,506 3,550.00 16.4 14.2 1.0 0.9 6.1 7.0 (19.1) (21.0) NYPCB 8046 TT 1,785 89.80 30.1 13.2 1.2 1.2 1.2 4.8 8.5 (30.4) (34.9) Average 20.1 11.9 1.2 1.1 6.8 10.1 (22.7) (31.7) FCB  WUS Printed 002463 CH 6.894 26.34 14.6 11.9 3.4 2.8 24.3 24.0 (26.3) (32.8) Victory Giant 300476 CH 8,449 71.77 20.1 15.1 5.4 4.1 19.6 21.2 (12.5) 53.5 Gold Circuit 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0) Power Supply  Delta 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7) Thermal  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)											· ·		
Amphenol         APH US         79,687 Average         65.76 Average         28.7 Description         25.6 Description         7.0 English of the first of the fir		(9.8)	` '								•		
New Note		` '	` ,			6.0					•	APH US	
Switch/Storage           Cisco         CSCO US         227,558         57.20         15.4         14.3         4.9         4.5         33.0         33.2         (5.5)         (4.4)           Arista         ANET US         92,314         73.20         29.6         24.9         7.1         5.6         26.3         24.7         (12.3)         (38.0)           Juniper         JNPR US         11,552         34.67         16.9         15.6         2.3         2.2         14.2         14.5         (3.0)         (10.7)           Keysight         KEYS US         23,656         136.89         19.5         17.2         4.4         3.9         19.8         21.1         (10.0)         (17.1)           Seagate         STX US         15,243         72.00         9.8         7.7         -         44.4         (143.5)         4,846.2         (18.1)         (24.3)           Western Digital         WDC US         12,497         35.93         7.4         7.5         -         2.2         25.4         56.6         (19.3)         (26.0)           Wostern Digital         WDC US         3,550.00         16.4         14.2         1.0         0.9         6.1         7.0<		(21.1)									· ·		•
Cisco         CSCO US         227,558         57.20         15.4         14.3         4.9         4.5         33.0         33.2         (5.5)         (4.4)           Arista         ANET US         92,314         73.20         29.6         24.9         7.1         5.6         26.3         24.7         (12.3)         (38.0)           Juniper         JNPR US         11,552         34.67         16.9         15.6         2.3         2.2         14.2         14.5         (3.0)         (10.7)           Keysight         KEYS US         23,656         136.89         19.5         17.2         4.4         3.9         19.8         21.1         (10.0)         (17.1)           Seagate         STX US         15,243         72.00         9.8         7.7         -         4.4         (143.5)         4,846.2         (18.1)         (24.0)           Western Digital         WDC US         12,497         35.93         7.4         7.5         -         2.2         25.4         56.6         (19.3)         (26.0)           WUS term Digital         WDC US         12,497         35.93         3.7         4         7.5         -         2.2         25.4         56.6         (19.3) </td <td>, , , ,</td> <td>` ′</td> <td>· /</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Switch/Storage</td>	, , , ,	` ′	· /										Switch/Storage
Arista ANET US 92,314 73.20 29.6 24.9 7.1 5.6 26.3 24.7 (12.3) (38.0) Juniper JNPR US 11,552 34.67 16.9 15.6 2.3 2.2 14.2 14.5 (3.0) (10.7) Keysight KEYS US 23,656 136.89 19.5 17.2 4.4 3.9 19.8 21.1 (10.0) (17.1) Seagate STX US 15,243 72.00 9.8 7.7 - 44.4 (143.5) 4,846.2 (18.1) (24.3) Western Digital WDC US 12,497 35.93 7.4 7.5 - 2.2 25.4 56.6 (19.3) (26.0) Average 17.6 15.2 4.4 8.7 1.5 629.4 (9.3) (18.7)  Substrate Unimicron 3037 TT 4,066 86.40 13.7 8.3 1.3 1.2 9.4 14.8 (18.5) (39.2) Ibiden 4062 JP 3,506 3,550.00 16.4 14.2 1.0 0.9 6.1 7.0 (19.1) (21.0) NYPCB 8046 TT 1,785 89.80 30.1 13.2 1.2 1.2 4.8 8.5 (30.4) (34.9) Average 20.1 11.9 1.2 1.1 6.8 10.1 (22.7) (31.7)  PCB  WUS Printed 002463 CH 6,894 26.34 14.6 11.9 3.4 2.8 24.3 24.0 (26.3) (32.8) Victory Giant 300476 CH 8,449 71.77 20.1 15.1 5.4 4.1 19.6 21.2 (12.5) 53.5  Gold Circuit 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0) Average 15.7 12.3 4.1 3.3 25.1 25.2 (17.6) 3.9  Power Supply  Delta 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7)  Average 15.7 12.3 4.1 3.3 25.1 25.2 (17.6) 3.9  Power Supply  Delta 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7)  Average 15.7 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0)  Thermal  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)	4) (3.4)	(4.4)	(5.5)	33.2	33.0	4.5	4.9	14.3	15.4	57.20	227,558		_
Juniper		(38.0)							29.6				Arista
Keysight         KEYS US         23,656         136.89         19.5         17.2         4.4         3.9         19.8         21.1         (10.0)         (17.1)           Seagate         STX US         15,243         72.00         9.8         7.7         -         44.4         (143.5)         4,846.2         (18.1)         (24.3)           Western Digital         WDC US         12,497         35.93         7.4         7.5         -         2.2         25.4         56.6         (19.3)         (26.0)           Average         17.6         15.2         4.4         8.7         1.5         629.4         (9.3)         (18.7)           Substrate           Unimicron         3037 TT         4,066         86.40         13.7         8.3         1.3         1.2         9.4         14.8         (18.5)         (39.2)           Bidden         4062 JP         3,550.00         16.4         14.2         1.0         0.9         6.1         7.0         (19.1)         (21.0)           NYPCB         8046 TT         1,785         89.80         30.1         13.2         1.2         1.2         4.8         8.5         (30.4)         (34.9)		(10.7)									· ·		
Seagate	, , ,	` '									•		
Western Digital         WDC US         12,497         35.93         7.4         7.5         -         2.2         25.4         56.6         (19.3)         (26.0)           Average         17.6         15.2         4.4         8.7         1.5         629.4         (9.3)         (18.7)           Substrate           Unimicron         3037 TT         4,066         86.40         13.7         8.3         1.3         1.2         9.4         14.8         (18.5)         (39.2)           Ibiden         4062 JP         3,506         3,550.00         16.4         14.2         1.0         0.9         6.1         7.0         (19.1)         (21.0)           NYPCB         8046 TT         1,785         89.80         30.1         13.2         1.2         1.2         4.8         8.5         (30.4)         (34.9)           PCB           WUS Printed         002463 CH         6,894         26.34         14.6         11.9         3.4         2.8         24.3         24.0         (26.3)         (32.8)           Victory Giant         300476 CH         8,449         71.77         20.1         15.1         5.4         4.1         19.6         <			` ,										
Average         17.6         15.2         4.4         8.7         1.5         629.4         (9.3)         (18.7)           Substrate           Unimicron         3037 TT         4,066         86.40         13.7         8.3         1.3         1.2         9.4         14.8         (18.5)         (39.2)           Ibiden         4062 JP         3,506         3,550.00         16.4         14.2         1.0         0.9         6.1         7.0         (19.1)         (21.0)           NYPCB         8046 TT         1,785         89.80         30.1         13.2         1.2         1.2         4.8         8.5         (30.4)         (34.9)           Average         20.1         11.9         1.2         1.1         6.8         10.1         (22.7)         (31.7)           PCB           WUS Printed         002463 CH         6,894         26.34         14.6         11.9         3.4         2.8         24.3         24.0         (26.3)         (32.8)           Victory Giant         300476 CH         8,449         71.77         20.1         15.1         5.4         4.1         19.6         21.2         (12.5)         53.			, ,				-						•
Substrate         Unimicron       3037 TT       4,066       86.40       13.7       8.3       1.3       1.2       9.4       14.8       (18.5)       (39.2)         Ibiden       4062 JP       3,506       3,550.00       16.4       14.2       1.0       0.9       6.1       7.0       (19.1)       (21.0)         NYPCB       8046 TT       1,785       89.80       30.1       13.2       1.2       1.2       4.8       8.5       (30.4)       (34.9)         Average       20.1       11.9       1.2       1.1       6.8       10.1       (22.7)       (31.7)         PCB         WUS Printed       002463 CH       6,894       26.34       14.6       11.9       3.4       2.8       24.3       24.0       (26.3)       (32.8)         Victory Giant       300476 CH       8,449       71.77       20.1       15.1       5.4       4.1       19.6       21.2       (12.5)       53.5         Gold Circuit       2368 TT       2,814       186.00       12.4       9.9       3.5       2.8       31.3       30.6       (14.1)       (9.0)         Power Supply         Delta <td>, , ,</td> <td>, ,</td> <td>, ,</td> <td></td> <td></td> <td></td> <td>4.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	, , ,	, ,	, ,				4.4						
Unimicron 3037 TT 4,066 86.40 13.7 8.3 1.3 1.2 9.4 14.8 (18.5) (39.2) lbiden 4062 JP 3,506 3,550.00 16.4 14.2 1.0 0.9 6.1 7.0 (19.1) (21.0) NYPCB 8046 TT 1,785 89.80 30.1 13.2 1.2 1.2 4.8 8.5 (30.4) (34.9) Average 20.1 11.9 1.2 1.1 6.8 10.1 (22.7) (31.7) PCB  WUS Printed 002463 CH 6,894 26.34 14.6 11.9 3.4 2.8 24.3 24.0 (26.3) (32.8) Victory Giant 300476 CH 8,449 71.77 20.1 15.1 5.4 4.1 19.6 21.2 (12.5) 53.5 Gold Circuit 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0) Average 15.7 12.3 4.1 3.3 25.1 25.2 (17.6) 3.9 Power Supply  Delta 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7) Lite-On 2301 TT 6,419 88.90 13.4 11.7 2.2 2.1 16.8 18.2 (15.7) (17.3) Average 15.7 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0) Thermal  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)	, (::-,	(1011)	(5.5)										Substrate
Ibiden	2) (38.7)	(39.2)	(18.5)	14.8	9.4	1.2	1.3	8.3	13.7	86.40	4.066	3037 TT	
NYPCB 8046 TT 1,785 89.80 30.1 13.2 1.2 1.2 4.8 8.5 (30.4) (34.9)  Average 20.1 11.9 1.2 1.1 6.8 10.1 (22.7) (31.7)  PCB  WUS Printed 002463 CH 6,894 26.34 14.6 11.9 3.4 2.8 24.3 24.0 (26.3) (32.8)  Victory Giant 300476 CH 8,449 71.77 20.1 15.1 5.4 4.1 19.6 21.2 (12.5) 53.5  Gold Circuit 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0)  Average 15.7 12.3 4.1 3.3 25.1 25.2 (17.6) 3.9  Power Supply  Delta 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7)  Lite-On 2301 TT 6,419 88.90 13.4 11.7 2.2 2.1 16.8 18.2 (15.7) (17.3)  Average 15.7 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0)  Thermal  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)		` ,	` ,								· ·		
Average       20.1       11.9       1.2       1.1       6.8       10.1       (22.7)       (31.7)         PCB         WUS Printed       002463 CH       6,894       26.34       14.6       11.9       3.4       2.8       24.3       24.0       (26.3)       (32.8)         Victory Giant       300476 CH       8,449       71.77       20.1       15.1       5.4       4.1       19.6       21.2       (12.5)       53.5         Gold Circuit       2368 TT       2,814       186.00       12.4       9.9       3.5       2.8       31.3       30.6       (14.1)       (9.0)         Average       15.7       12.3       4.1       3.3       25.1       25.2       (17.6)       3.9         Power Supply         Delta       2308 TT       25,850       323.50       18.0       15.3       3.2       2.9       18.0       18.7       (14.5)       (22.7)         Lite-On       2301 TT       6,419       88.90       13.4       11.7       2.2       2.1       16.8       18.2       (15.7)       (17.3)         Thermal         FII       601138 CH       46,752       <	, , ,	` '	, ,							•	•		
PCB         WUS Printed       002463 CH       6,894       26.34       14.6       11.9       3.4       2.8       24.3       24.0       (26.3)       (32.8)         Victory Giant       300476 CH       8,449       71.77       20.1       15.1       5.4       4.1       19.6       21.2       (12.5)       53.5         Gold Circuit       2368 TT       2,814       186.00       12.4       9.9       3.5       2.8       31.3       30.6       (14.1)       (9.0)         Average       15.7       12.3       4.1       3.3       25.1       25.2       (17.6)       3.9         Power Supply         Delta       2308 TT       25,850       323.50       18.0       15.3       3.2       2.9       18.0       18.7       (14.5)       (22.7)         Lite-On       2301 TT       6,419       88.90       13.4       11.7       2.2       2.1       16.8       18.2       (15.7)       (17.3)         Average       15.7       13.5       2.7       2.5       17.4       18.5       (15.1)       (20.0)         Thermal         FII       601138 CH       46,752			, ,										
WUS Printed       002463 CH       6,894       26.34       14.6       11.9       3.4       2.8       24.3       24.0       (26.3)       (32.8)         Victory Giant       300476 CH       8,449       71.77       20.1       15.1       5.4       4.1       19.6       21.2       (12.5)       53.5         Gold Circuit       2368 TT       2,814       186.00       12.4       9.9       3.5       2.8       31.3       30.6       (14.1)       (9.0)         Average       15.7       12.3       4.1       3.3       25.1       25.2       (17.6)       3.9         Power Supply         Delta       2308 TT       25,850       323.50       18.0       15.3       3.2       2.9       18.0       18.7       (14.5)       (22.7)         Lite-On       2301 TT       6,419       88.90       13.4       11.7       2.2       2.1       16.8       18.2       (15.7)       (17.3)         Average       15.7       13.5       2.7       2.5       17.4       18.5       (15.1)       (20.0)         Thermal         FII       601138 CH       46,752       17.25	(01.0)	(0111)	(==,								7.1. U. m.g.		РСВ
Victory Giant         300476 CH         8,449         71.77         20.1         15.1         5.4         4.1         19.6         21.2         (12.5)         53.5           Gold Circuit         2368 TT         2,814         186.00         12.4         9.9         3.5         2.8         31.3         30.6         (14.1)         (9.0)           Average         15.7         12.3         4.1         3.3         25.1         25.2         (17.6)         3.9           Power Supply           Delta         2308 TT         25,850         323.50         18.0         15.3         3.2         2.9         18.0         18.7         (14.5)         (22.7)           Lite-On         2301 TT         6,419         88.90         13.4         11.7         2.2         2.1         16.8         18.2         (15.7)         (17.3)           Average         15.7         13.5         2.7         2.5         17.4         18.5         (15.1)         (20.0)           Thermal           FII         601138 CH         46,752         17.25         11.1         9.5         2.0         1.8         18.2         18.7         (18.9)         (17.2)	8) (33.5)	(32.8)	(26.3)	24.0	24.3	2.8	3.4	11.9	14.6	26.34	6.894	002463 CH	
Gold Circuit 2368 TT 2,814 186.00 12.4 9.9 3.5 2.8 31.3 30.6 (14.1) (9.0)  Average 15.7 12.3 4.1 3.3 25.1 25.2 (17.6) 3.9  Power Supply  Delta 2308 TT 25,850 323.50 18.0 15.3 3.2 2.9 18.0 18.7 (14.5) (22.7)  Lite-On 2301 TT 6,419 88.90 13.4 11.7 2.2 2.1 16.8 18.2 (15.7) (17.3)  Average 15.7 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0)  Thermal  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)											•		
Average     15.7     12.3     4.1     3.3     25.1     25.2     (17.6)     3.9       Power Supply       Delta     2308 TT     25,850     323.50     18.0     15.3     3.2     2.9     18.0     18.7     (14.5)     (22.7)       Lite-On     2301 TT     6,419     88.90     13.4     11.7     2.2     2.1     16.8     18.2     (15.7)     (17.3)       Average     15.7     13.5     2.7     2.5     17.4     18.5     (15.1)     (20.0)       Thermal       FII     601138 CH     46,752     17.25     11.1     9.5     2.0     1.8     18.2     18.7     (18.9)     (17.2)													-
Power Supply         Delta       2308 TT       25,850       323.50       18.0       15.3       3.2       2.9       18.0       18.7       (14.5)       (22.7)         Lite-On       2301 TT       6,419       88.90       13.4       11.7       2.2       2.1       16.8       18.2       (15.7)       (17.3)         Average       15.7       13.5       2.7       2.5       17.4       18.5       (15.1)       (20.0)         Thermal         FII       601138 CH       46,752       17.25       11.1       9.5       2.0       1.8       18.2       18.7       (18.9)       (17.2)										100.00		2000	Cola Circan
Delta       2308 TT       25,850       323.50       18.0       15.3       3.2       2.9       18.0       18.7       (14.5)       (22.7)         Lite-On       2301 TT       6,419       88.90       13.4       11.7       2.2       2.1       16.8       18.2       (15.7)       (17.3)         Average       15.7       13.5       2.7       2.5       17.4       18.5       (15.1)       (20.0)         Thermal         FII       601138 CH       46,752       17.25       11.1       9.5       2.0       1.8       18.2       18.7       (18.9)       (17.2)	7.1	3.0	(11.10)			0.0					o. ago		Power Supply
Lite-On 2301 TT 6,419 88.90 13.4 11.7 2.2 2.1 16.8 18.2 (15.7) (17.3)  Average 15.7 13.5 2.7 2.5 17.4 18.5 (15.1) (20.0)  Thermal  FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)	7) (24.9)	(22.7)	(14.5)	18.7	18.0	29	3.2	15.3	18.0	323 50	25 850	2308 TT	
Average     15.7     13.5     2.7     2.5     17.4     18.5     (15.1)     (20.0)       Thermal       FII     601138 CH     46,752     17.25     11.1     9.5     2.0     1.8     18.2     18.7     (18.9)     (17.2)		, ,	, ,										
<b>Thermal</b> FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)			, ,							00.30	•	200111	2.10 011
FII 601138 CH 46,752 17.25 11.1 9.5 2.0 1.8 18.2 18.7 (18.9) (17.2)	o, (17.0)	(20.0)	(13.1)	.0.0	11.7	2.5	£.1	10.0	10.7		Atorage		Thermal
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Source: Bloomberg, CMBIGM estimates, as of 04/15/2025 close.



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