September 11, 2026 10:18 AM GMT

Investor Presentation: Greater China Technology Hardware | Asia Pacific

AI Profit Taking Occurred in 3Q26, What's Next?

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GREATER CHINA TECHNOLOGY HARDWARE
Asia Pacific
Industry View **In-Line**

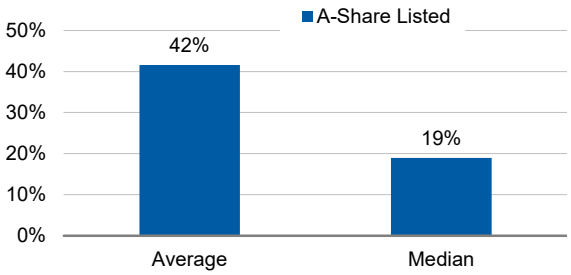
investors should be aware that the firm may have a conflict of

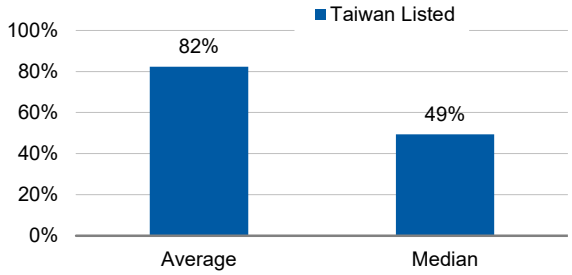
Research as only a single factor in making their investment decision.

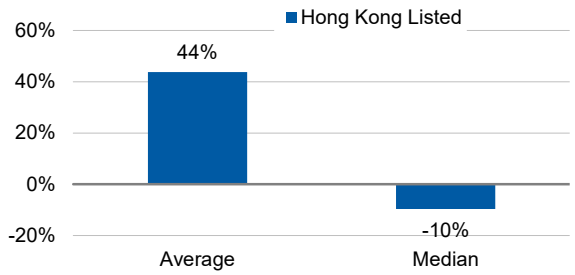
For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

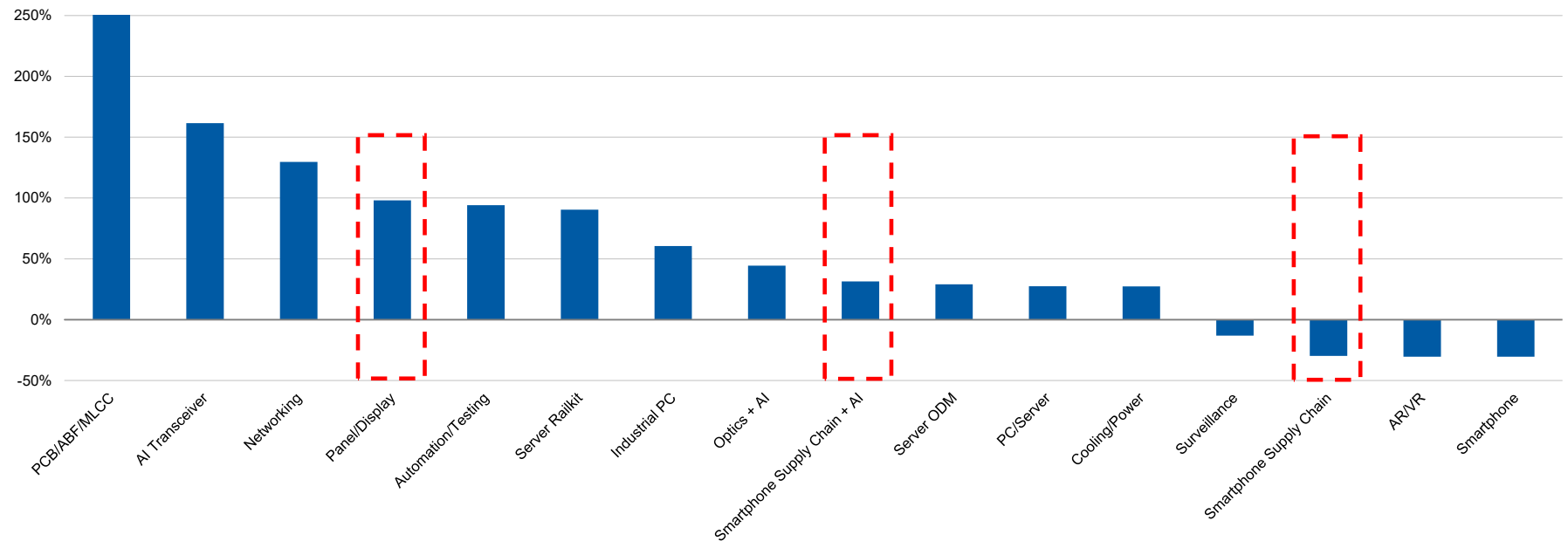
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Highly Divergent 1H26 Performance, with AI Content as the Key Re-rating Catalyst

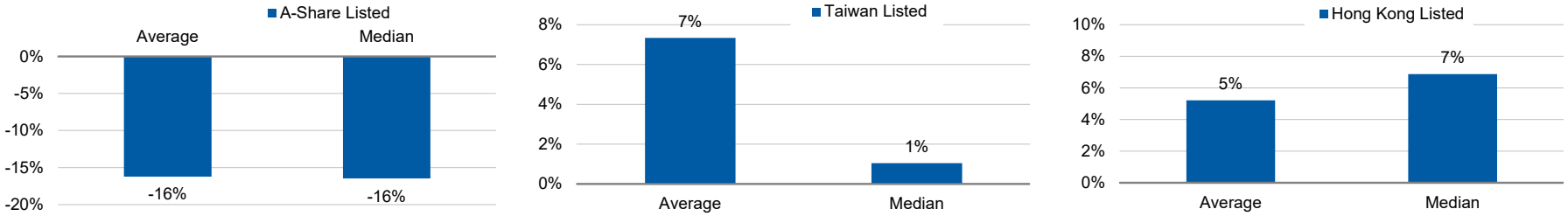


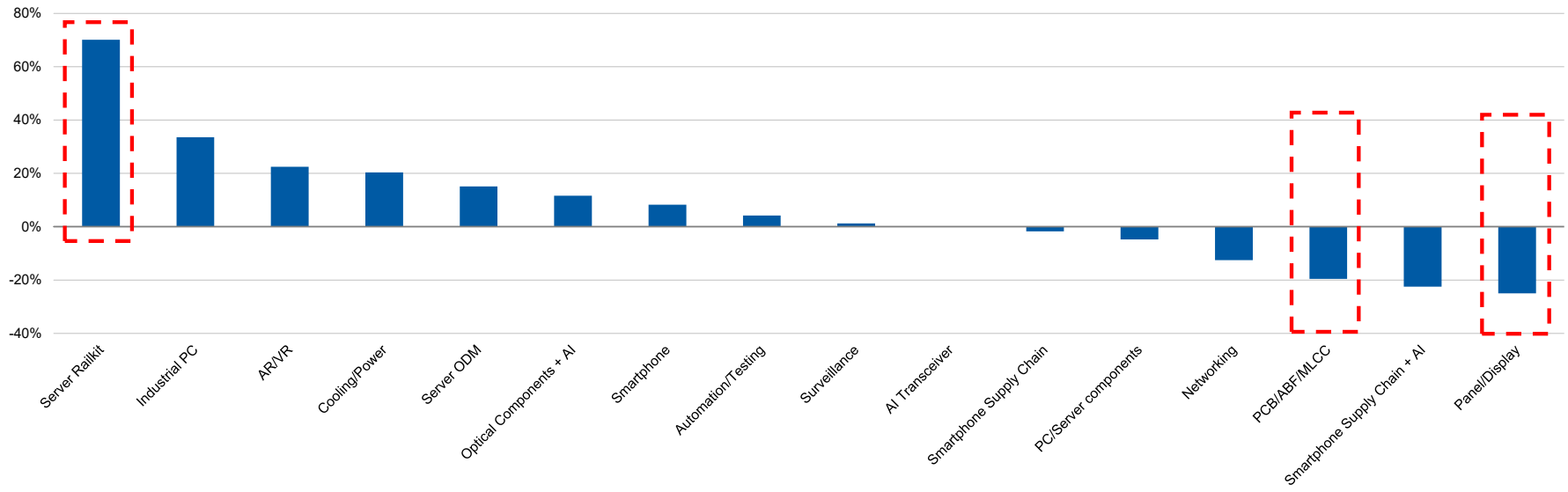






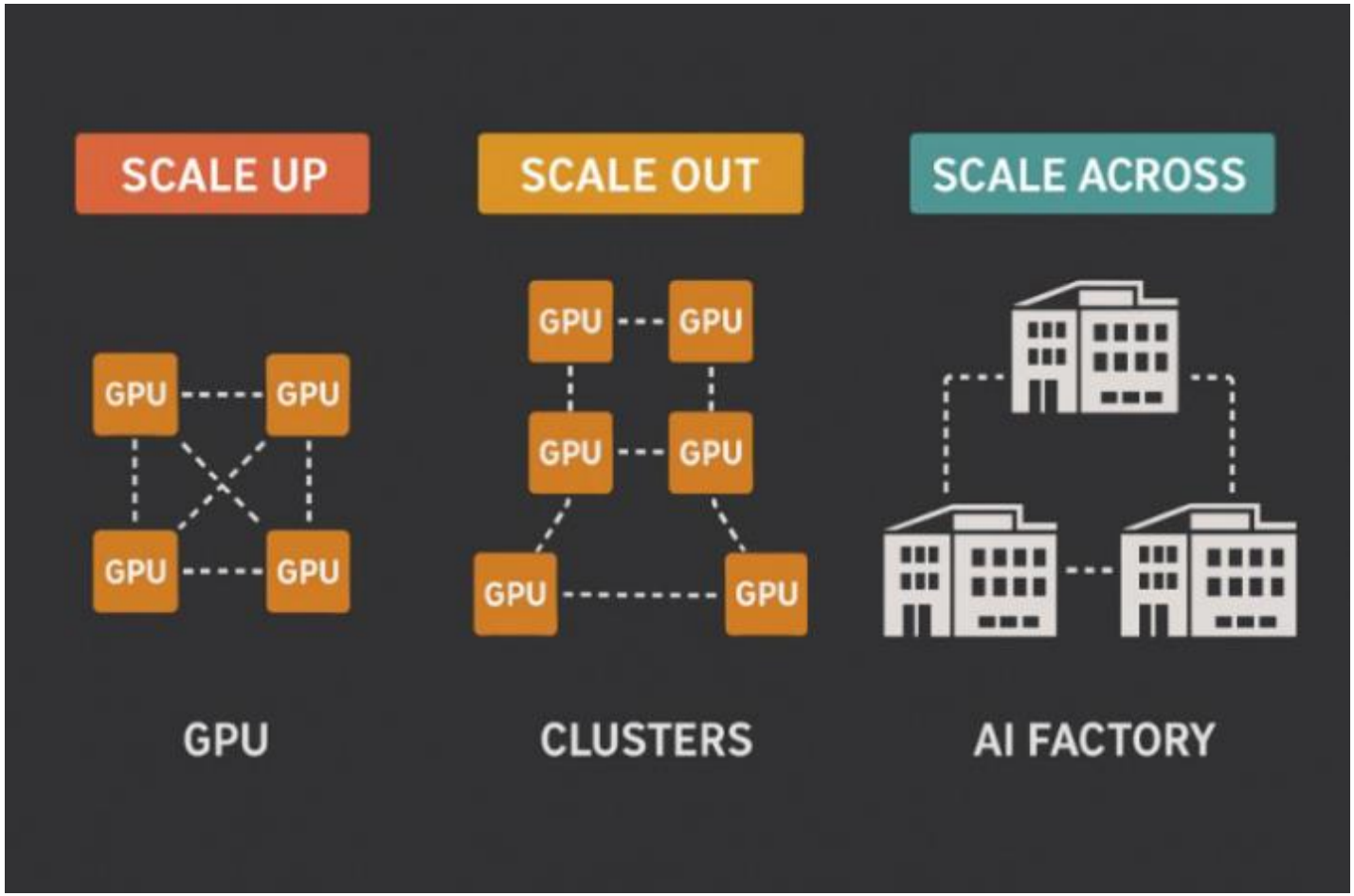
AI Profit Taking Occurred in 3Q26, King Slide, LandMark, Largan & Genius Outperformed



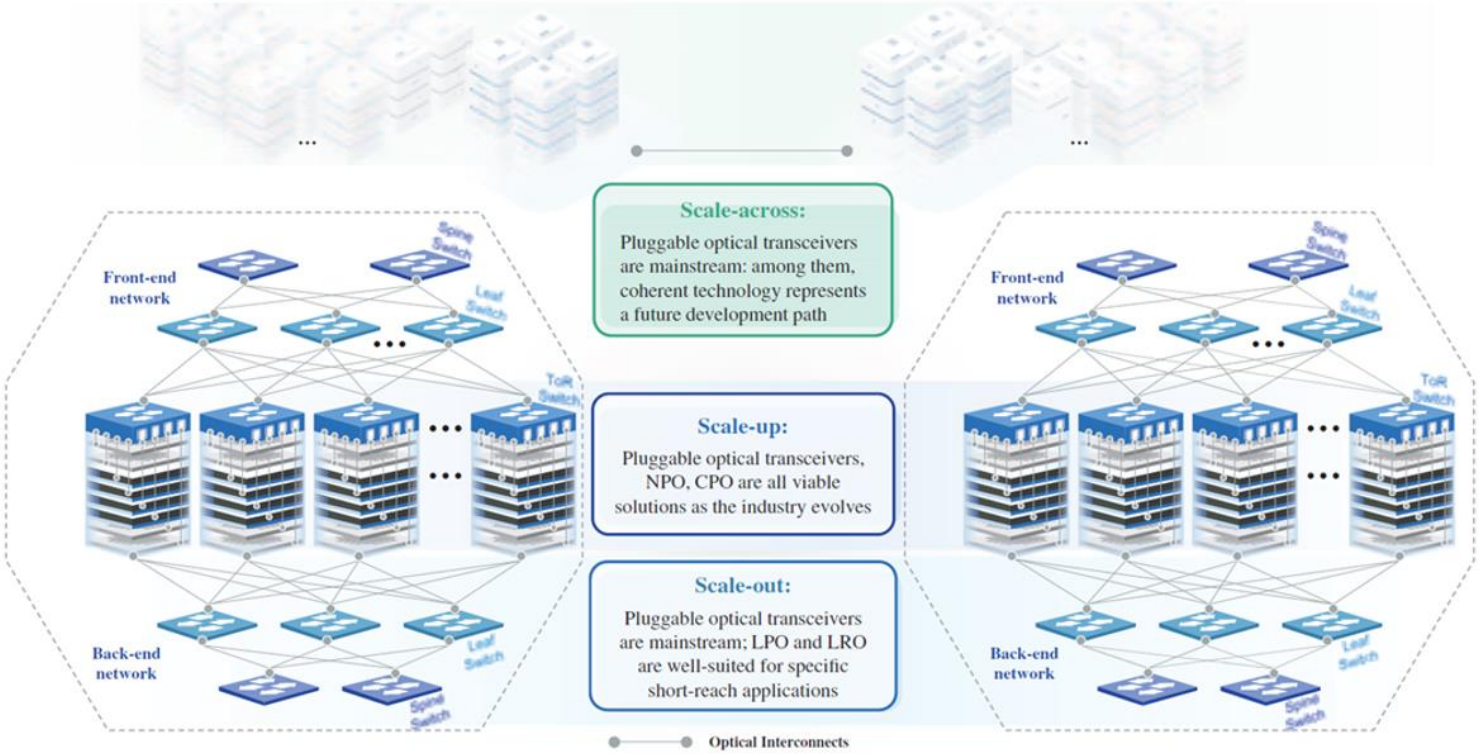


Andy Meng

Scale-up, Scale-out, and Scale-Across



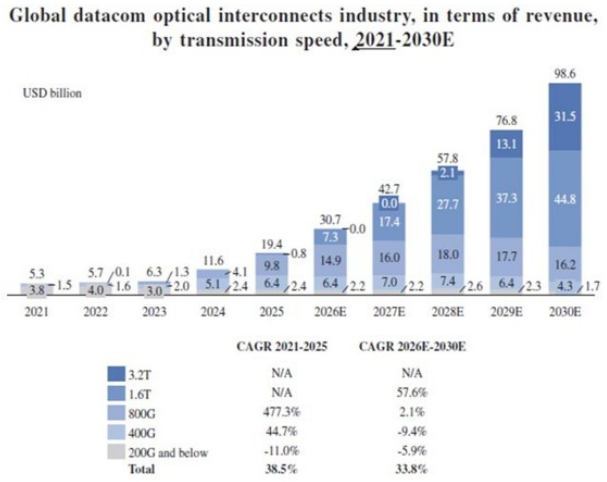
Significant Growth Opportunity from AI factory Build-outs

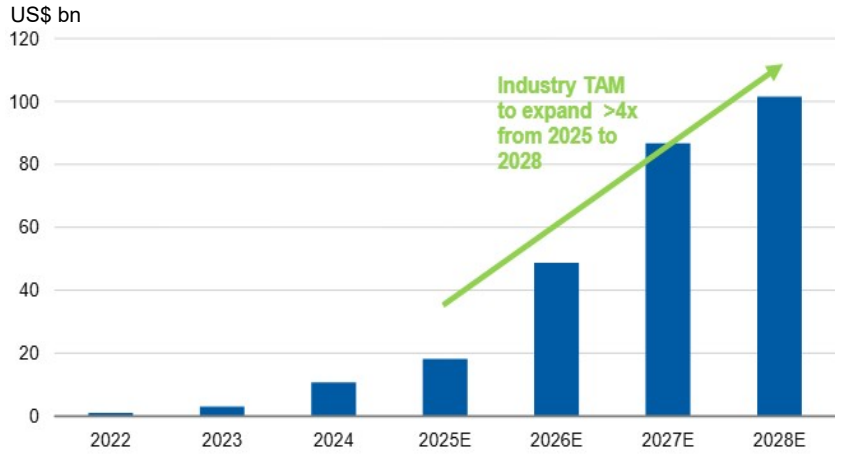


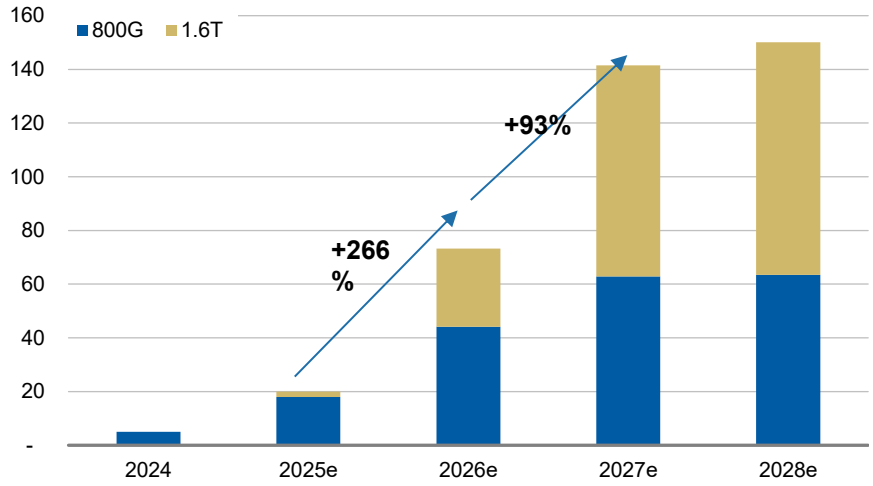
Source: China Insights Consultancy Limited.

Global AI transceiver TAM to expand >4x, 2025-2028

Metric	NVL72 Optical Scale-Out	NVL576 Hybrid	NVL576 Full CPO	Feynman Hybrid 200G	Feynman Full CPO 400G	Feynman Full CPO 200G
Configuration	NVL72	NVL576	NVL576	NVL1152	NVL1152	NVL1152
Total GPUs	72	576	576	1,152	1,152	1,152
Racks	1	8	8	8	8	8
GPUs per rack	72	72	72	144	144	144
Low-latency domain	72	576	576	1,152	1,152	1,152
Scale-up BW/GPU (Tb/s)	N/A	14.4	14.4	28.8	28.8	28.8
Scale-out BW/GPU (Tb/s)	1.6T	1.6T	1.6T	3.2T	3.2T	3.2T
Scale-out oversubscription	2:1	1.5:1	1.5:1	1:1	1:1	1:1
SerDes (Gb/s)	100	200	200	200	400	200
Scale-up medium	Copper	Hybrid	CPO	Hybrid	CPO	CPO
Scale-out medium	Plug/CPO	Plug/CPO	Plug/CPO	CPO	CPO	CPO
Intra-rack OEs (A)	-	-	10,368	-	20,736	41,472
Inter-pod OEs (B)	-	9,072	9,072	36,288	18,144	36,288
Scale-out OEs (C)	144	768	768	2,304	1,152	2,304
Total OEs (pod)	144	9,840	20,208	38,592	40,032	80,064
OEs per rack	144	1,230	2,526	4,824	5,004	10,008
OEs per GPU	2	17	35	34	35	70



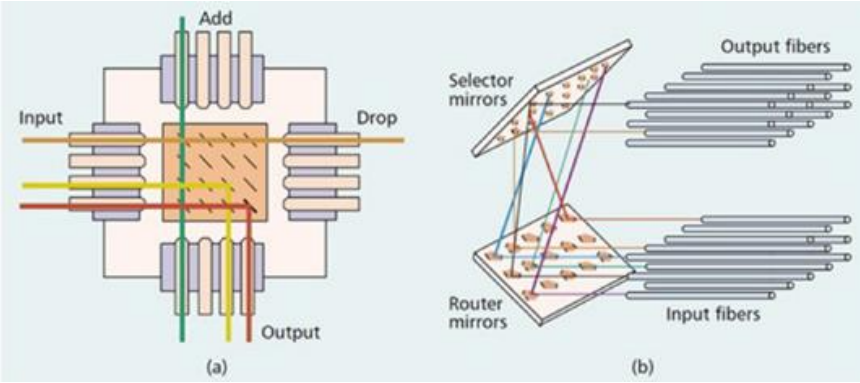




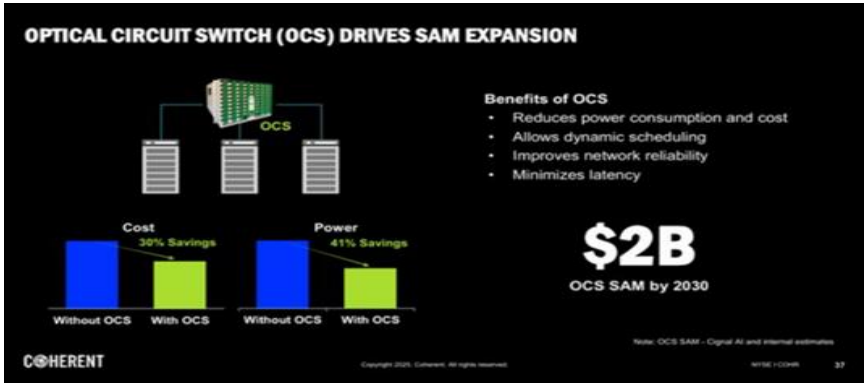
Source: Company data, LightCounting (E) estimates, China Insights Consultancy Limited,

OCS and NPO could Become Additional Drivers from 2027

OCS Example MEMS Mirrors Forming Circuit Switches



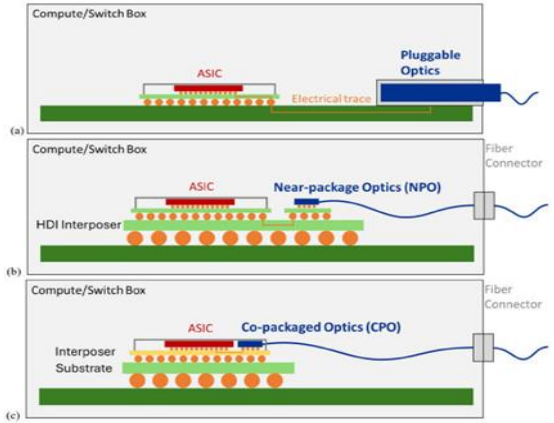
Optical vendors positioning for OCS expansion



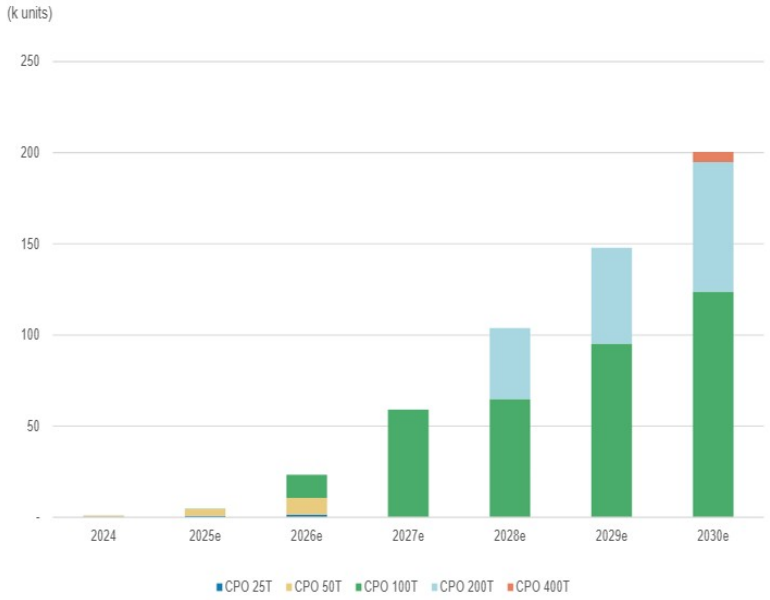
Major OCS Solutions in the R&D Pipeline

Vendor	Product	Port Configuration	Technology	Status
Lumentum (LITE)	R300 OCS	300x300	MEMS	Strong market reception
Lumentum (LITE)	R64 OCS	64x64 (Scalable to 72x72)	MEMS	Sampling Q4 2025, GAH2 2026
Coherent (COHR)	OCS Platform	64x64 and 320x320	Liquid Crystal	Shipped to 7 customers as of Nov 2025
FS	DCS - WSeries	8x8, 16x16, 32x32	MEMS	Launched Aug 2025
Huber+Suhner (HUBN)	Polatis OCS	No evidence	No evidence	Major orders received July 2025

NPO vs. CPO and pluggables



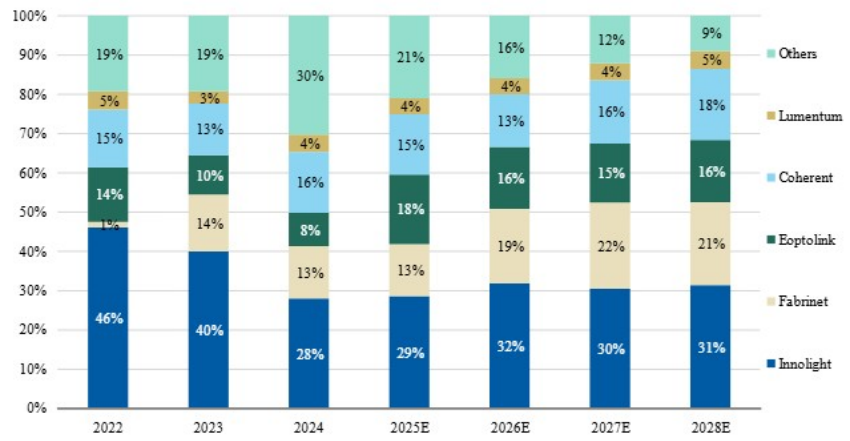
We Expect Total CPO Switch Shipments to Rise at a 144% CAGR Over 2024-2030



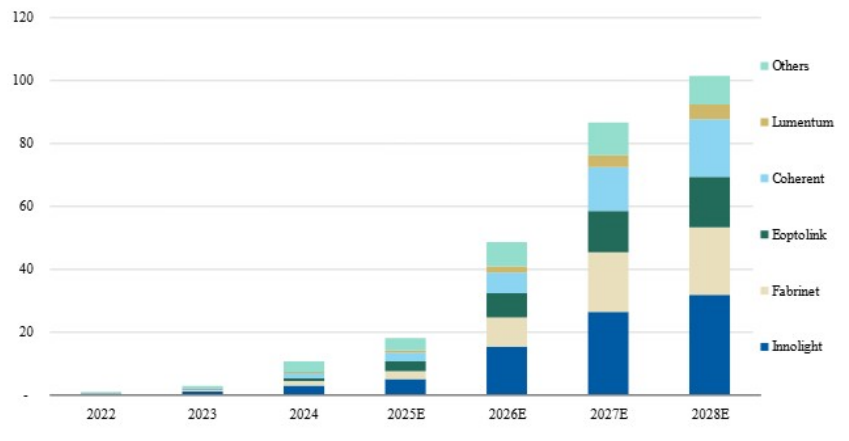


Market Share Change Unlikely to Cap Absolute Growth in TAM

Global AI transceiver market share changes: Eoptolink and Coherent likely to gain share



…but each company can enjoy growing TAM (absolute amount)

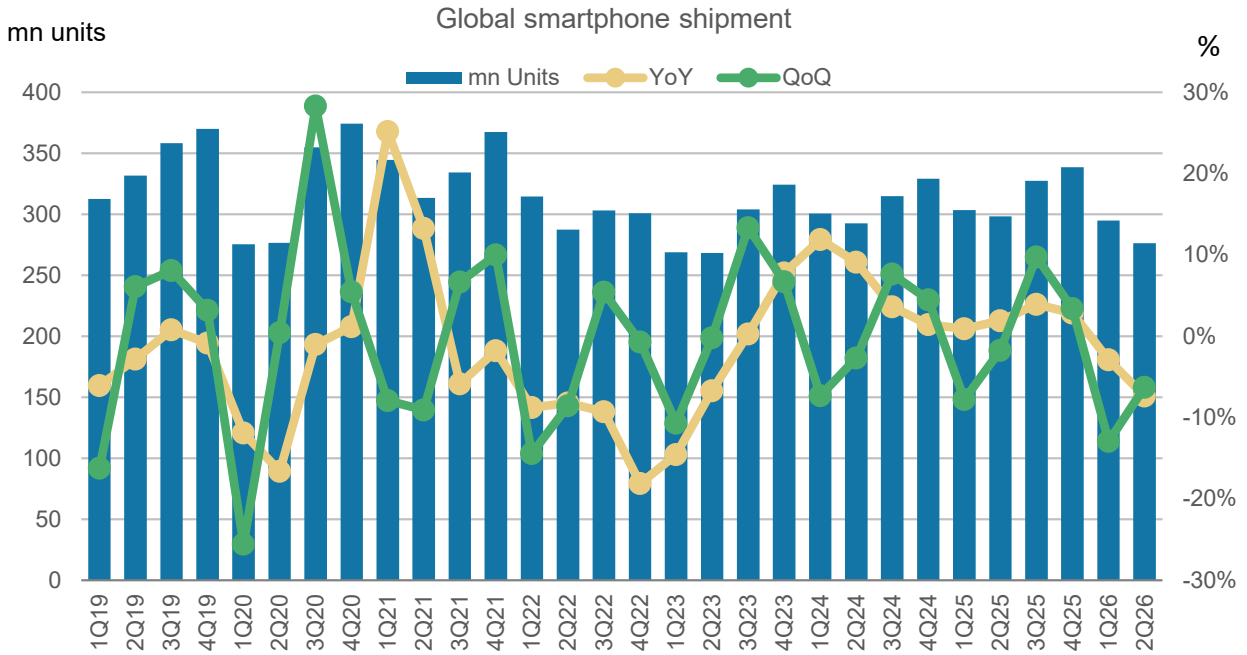


InnoLight: Global leader in the AI transceiver industry

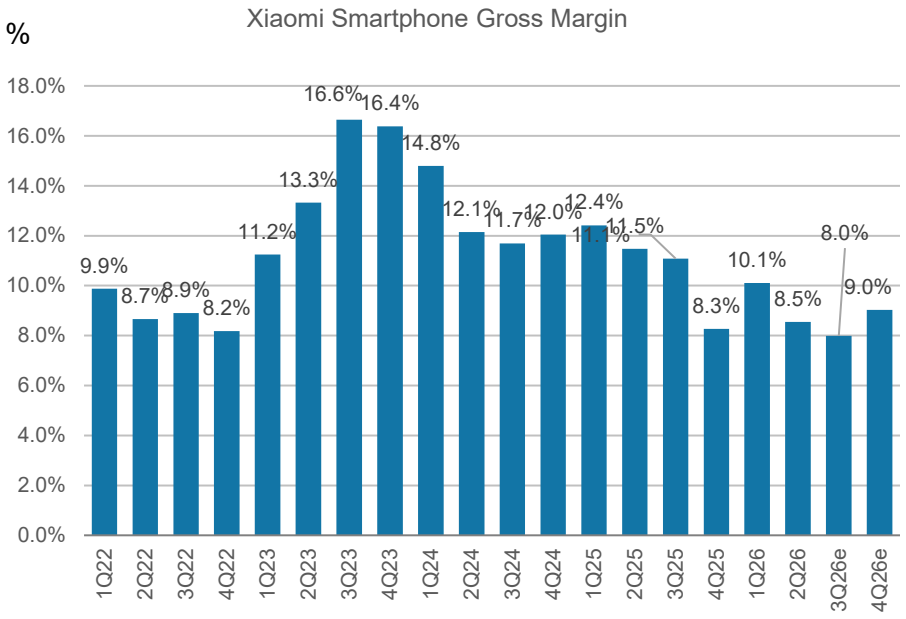


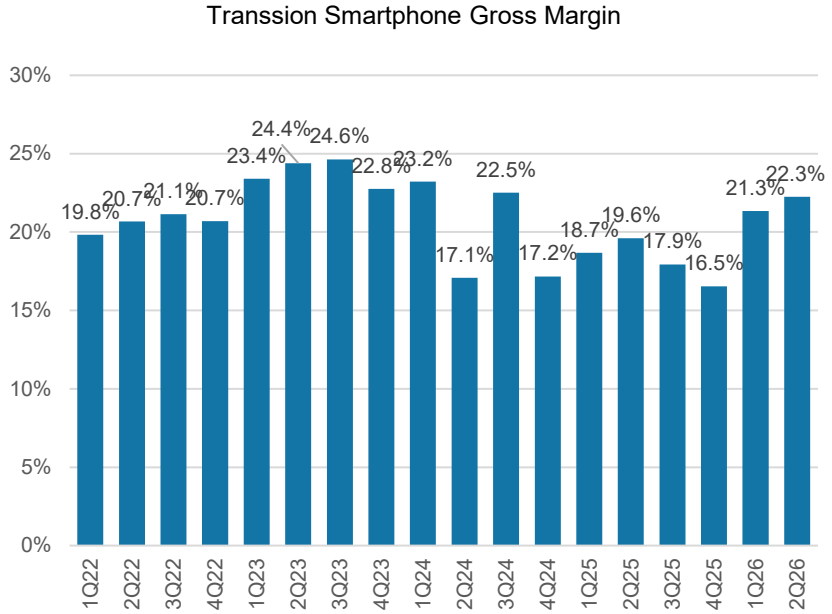
Ranking of Top 10 Transceiver Suppliers				
Rank	2010	2018	2023	2024
1	Finisar	Finisar	**Innolight**	**Innolight**
2	Opnext	**Innolight**	Coherent	Coherent
3	Sumitomo	Hisense	Huawei	Eoptolink
4	Avago	Accelink	Cisco	Huawei
5	Source Photonics	FOIT (Avago)	Accelink	Cisco
6	Fujitsu	Lumentum/Oclaro	Hisense	Accelink
7	JDSU	Acacia	Eoptolink	Hisense
8	Emcore	Intel	HGGenuine	Marvell
9	WTD	AOI	Source Photonics	HGGenuine
10	NeoPhotonics	Sumitomo	Marvell	Source Photonics

Global Smartphone Shipments Dipped 7% YoY and 6% QoQ in 2Q26



Xiaomi and Transsion's Smartphone GPM Trends





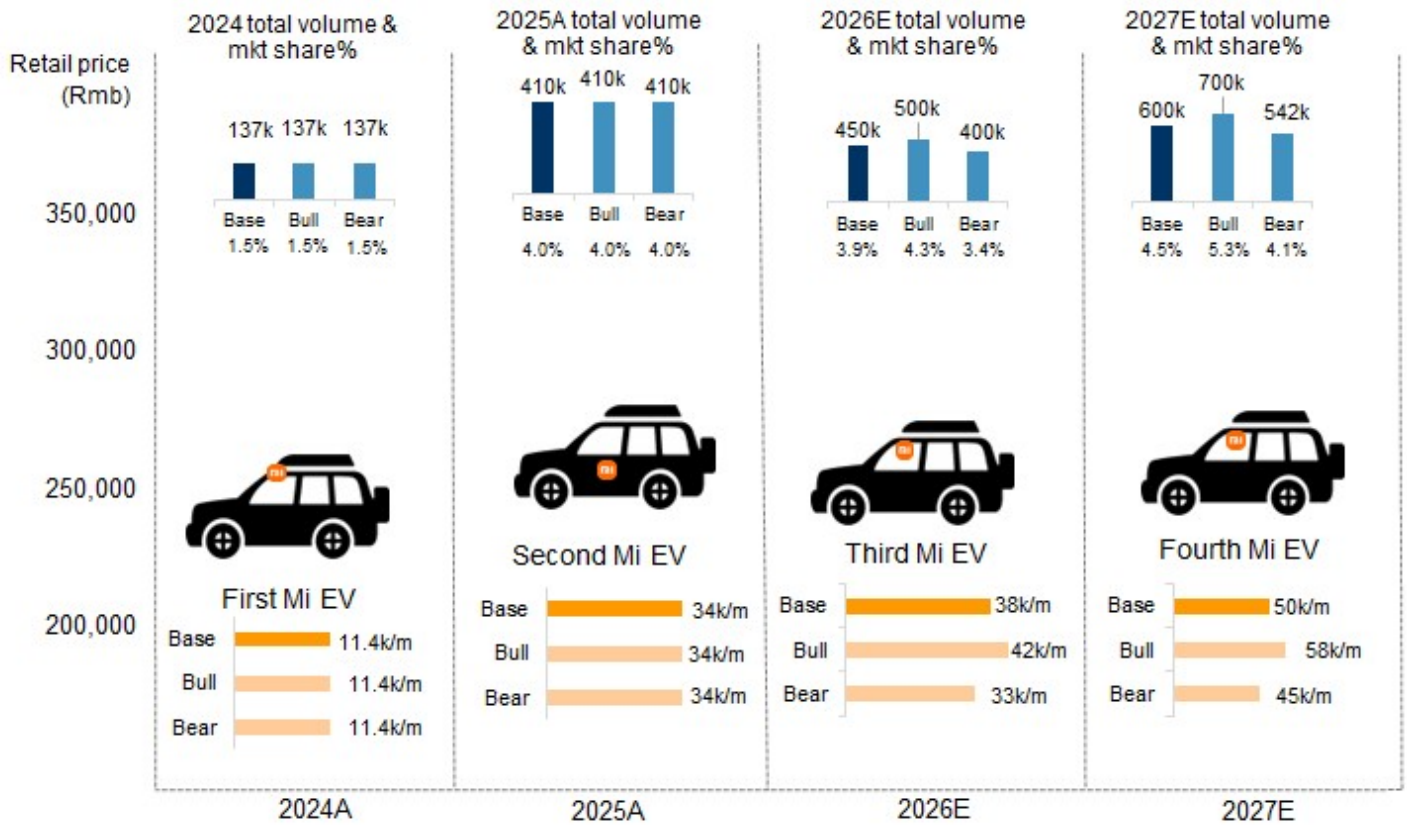
Source:

Xiaomi SkyNomad Officially Launched on Sep 7



Source: Company data

Our Base/Bull/Bear cases for Xiaomi's EV Product Roadmap and Sales Volume Forecasts

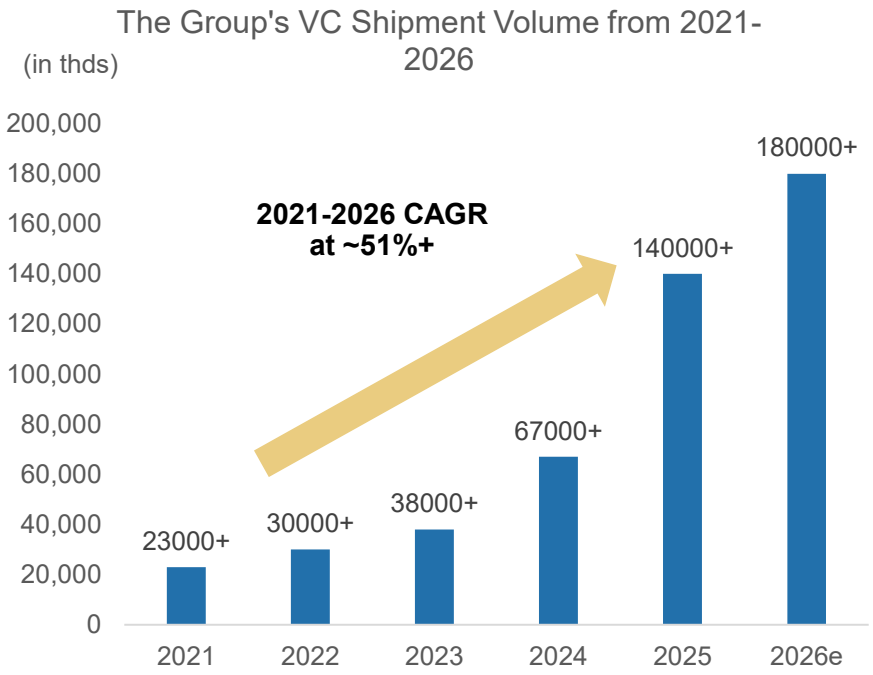


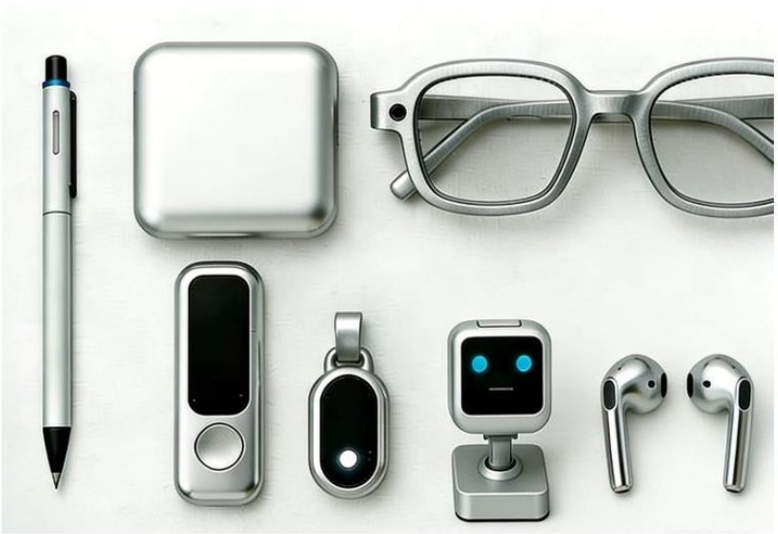
FAU/CPO New Business Became Important Drivers for Largan and Genius

	2026E	2027E	2028E
Optical Engine Volume (mn)	0.39	7.78	48.60
FAU Volume (mn units)	0.39	7.78	48.60
ASP (USD)	100	100	100
Total TAM (US$ mn)	39	778	4,860
Largan's Market Share	0%	5%	40%
FAU Revenue for Largan (US$ mn)	0	39	1,931
Net Margin	n.a.	10%	30%
FAU Earnings for Largan (US$ mn)	n..a	4	579
Assumed Forward P/E			35
Market Cap in USD (mn)			20,278
Market Cap in TWD (mn)			648,889
Per share impact	4,100	4,510	4,961

	2026E	2027E	2028E
Optical Engine Volume (mn)	0.39	7.78	48.60
FAU Volume (mn units)	0.39	7.78	48.60
ASP (USD)	100	100	100
Total TAM (US$ mn)	39	778	4,860
15% Share of Components TAM	6	117	729
Genius's Market Share	0%	5%	30%
FAU Component Revenue for Genius (US$ mn)	0	6	218
Net Margin	n.a.	10%	25%
FAU Component Earnings for Genius (US$ mn)	n..a	1	54
Assumed Forward P/E			25
Market Cap in USD (mn)			1,322
Market Cap in TWD (mn)			42,294
Per share impact	310	341	375

AAC: Rapid Vapor Chamber (VC) Growth and Beneficiary of AI Hardware Opportunities

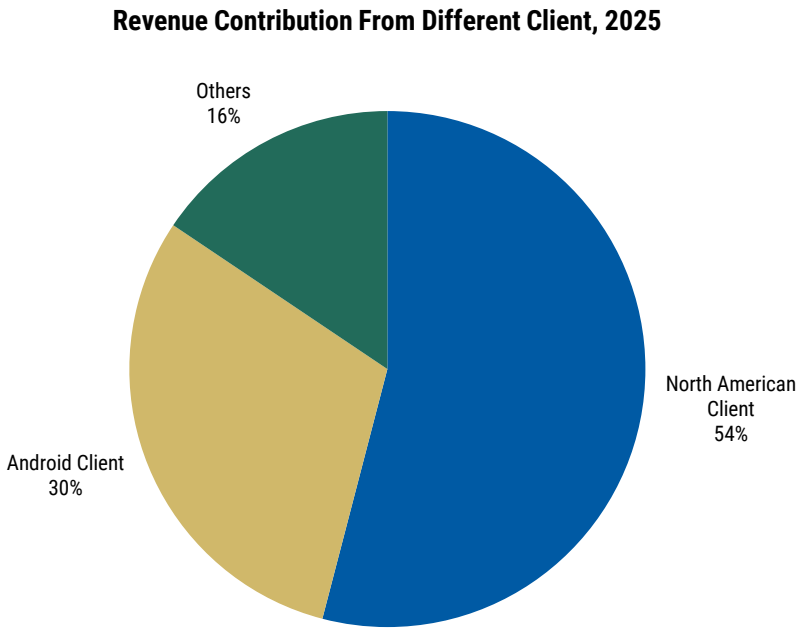


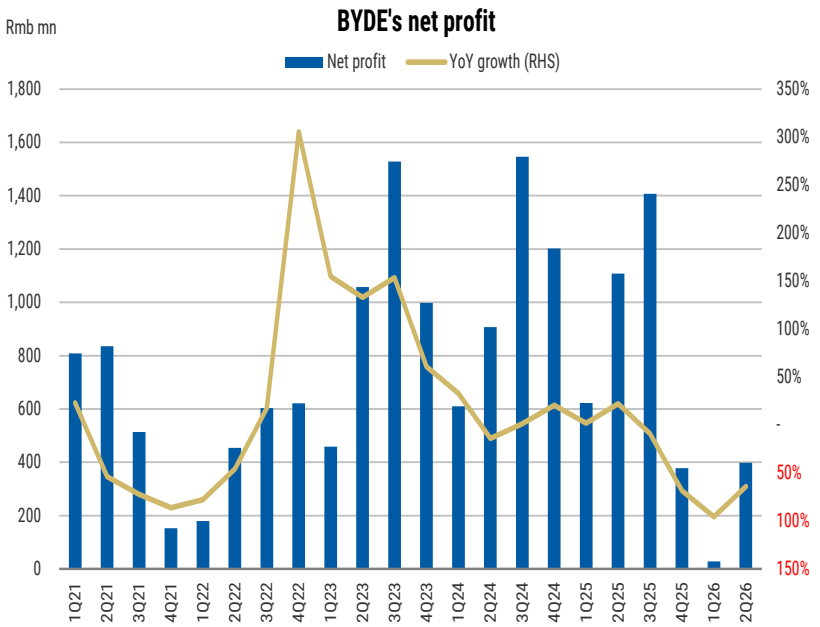


Illustrations of various new forms of AI hardware concepts

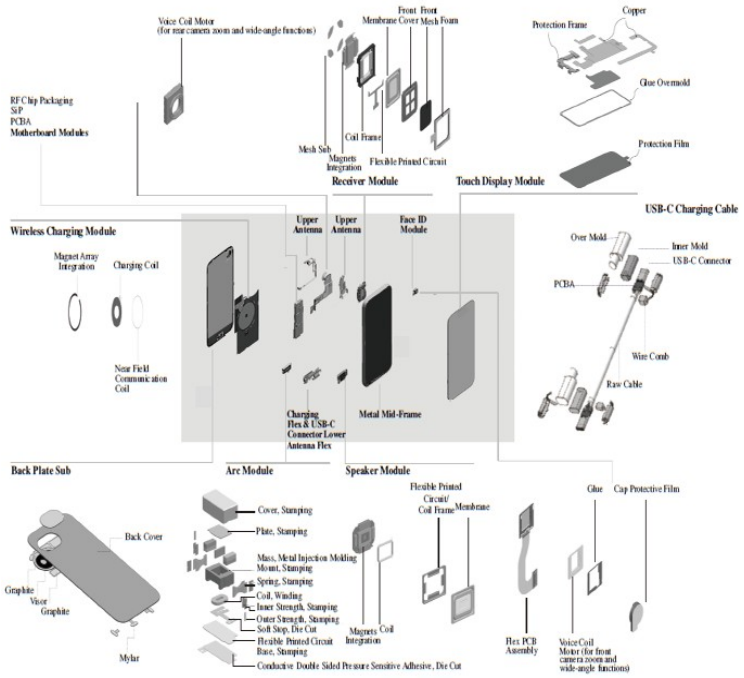
(AR glasses, earphone-like devices, pendants, pens, desktop robots, ...)

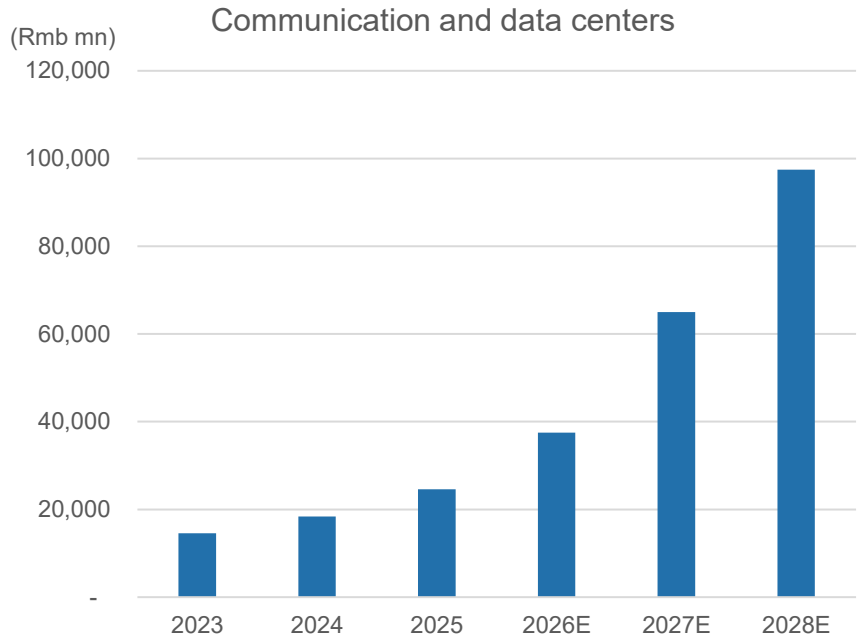
BYDE: Earnings to See Sequential Improvement in 3Q26-4Q26



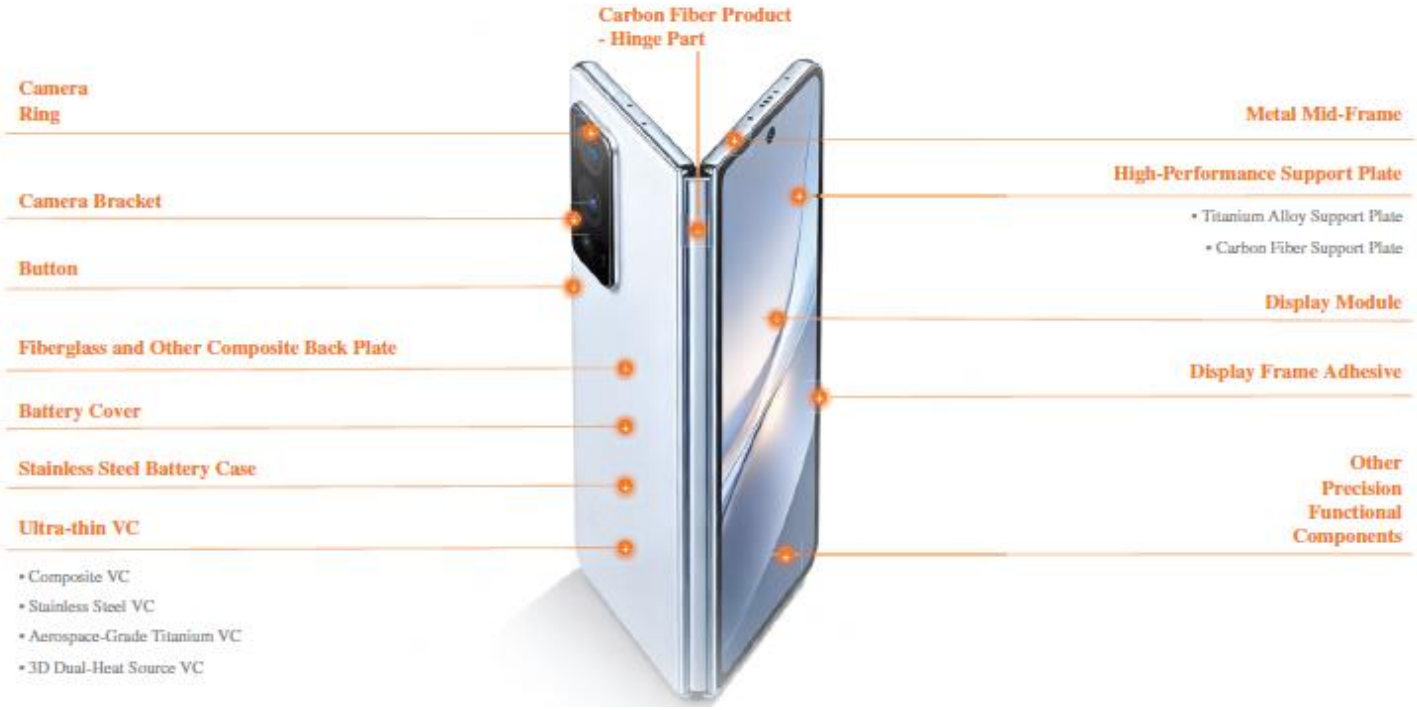


Luxshare: Dual Drivers from Apple and AI Infrastructure





Lingyi: Higher Content Value from New iPhone



Crystal-Optech: Three New Capex Projects for CPO/NPO Opportunities

Crystal-Optech is leveraging its core competencies in optics, thin-film coating, and precision manufacturing to build exposure across multiple critical layers of the CPO ecosystem, including:

1. **Silicon Lens**
2. **TGV Glass Substrate**
3. **WDM Filters**

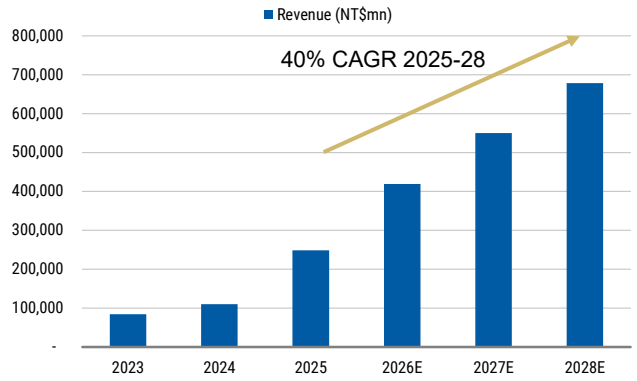
AI Optical Infrastructure Development Pipeline

Technology Platform	Role in CPO / Optical Interconnect Architecture	Strategic Significance	Current Status
Silicon Lens (CPO)	Core optical coupling component within CPO optical engines	Enables high-density optical signal transmission for 800G/1.6T modules and future AI cluster interconnects	Under Development
TGV Glass Substrate	Advanced photoelectric packaging substrate platform	Supports optical-electrical integration and positions the company to participate in the CPO packaging supply chain	Under Development
WDM Filter	High-precision wavelength management component for optical communications	Expands exposure to high-end optical networking applications through narrow-band filter technology	Under Development

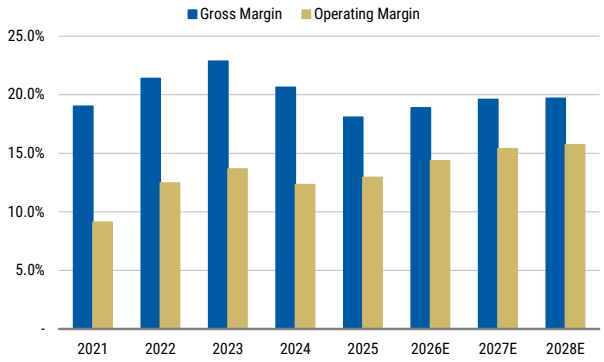
Derrick Yang

Accton: Dual Drivers from Network Switches and AI Accelerator Modules

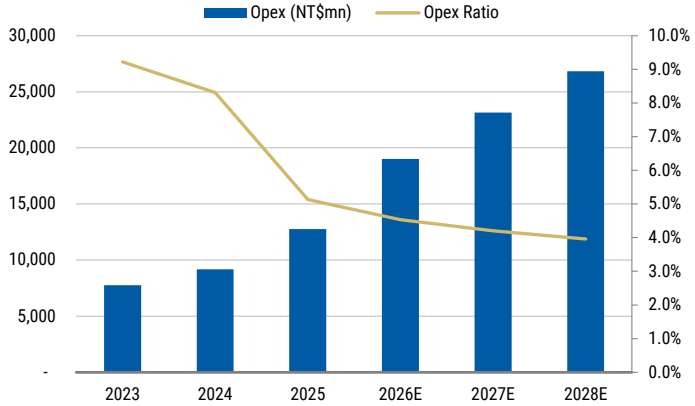
Overall Revenue Forecasts



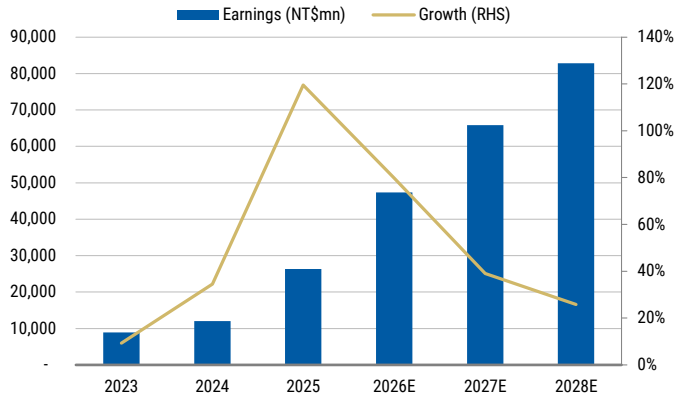
Margin Trend



Operating Expense Trend

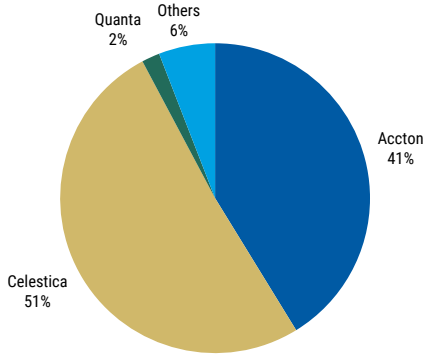


Earnings Forecasts

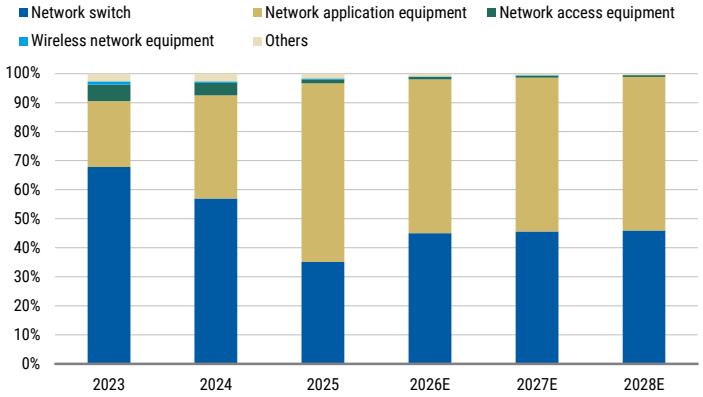


Accton: Dual Drivers from Network Switches and AI Accelerator Modules

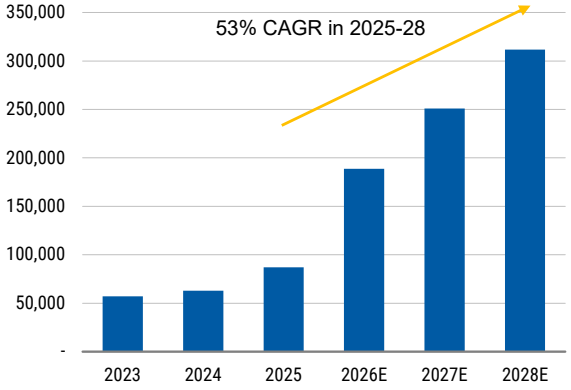
ODM Direct Market Share for Switches (2025)



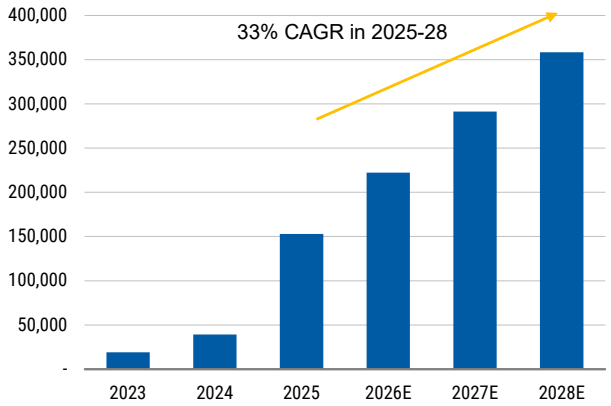
Revenue Breakdown



Network Switch Revenue Forecasts

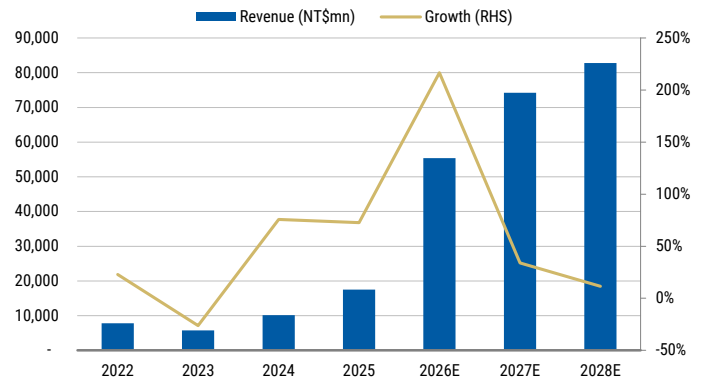


Networking Application Revenue Forecasts

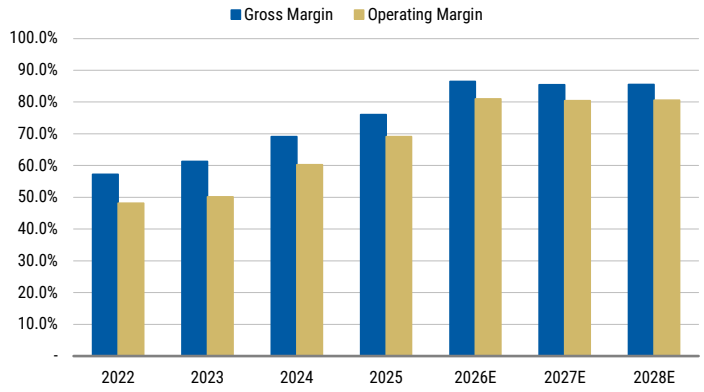


King Slide: Favorable Dynamics for Server Rail Kit

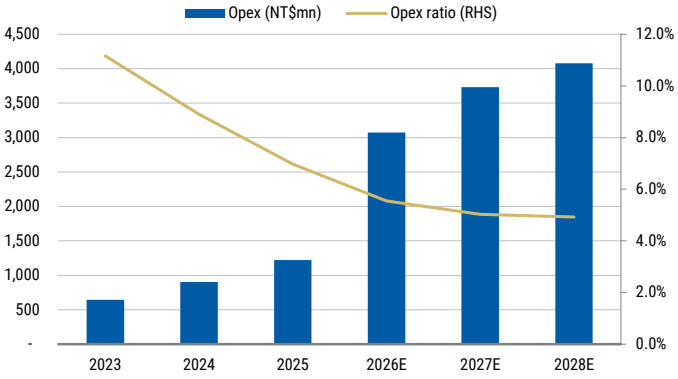
68% Revenue CAGR over 2025-28E



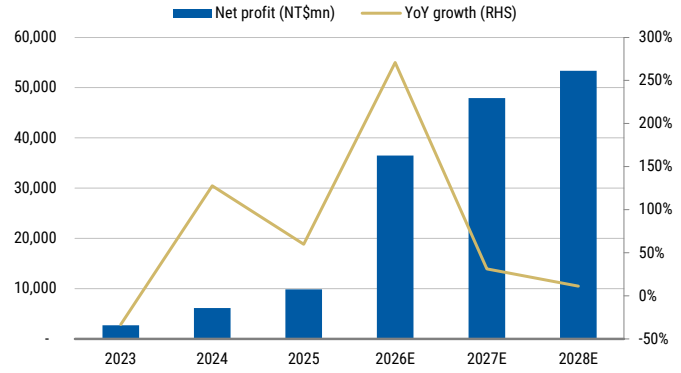
Margin Trend



Operating Expense Trend

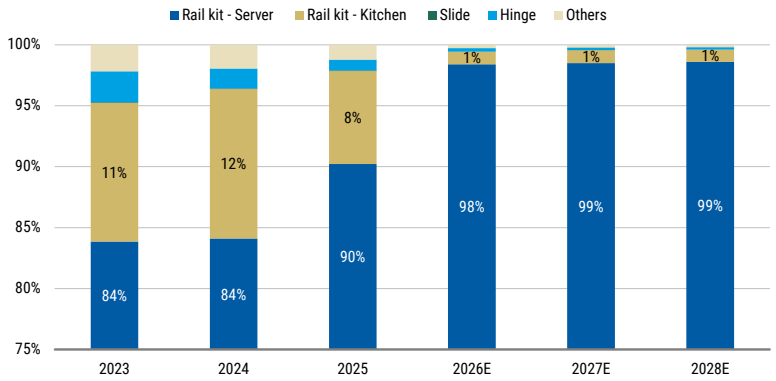


76% Earnings CAGR over 2025-28E

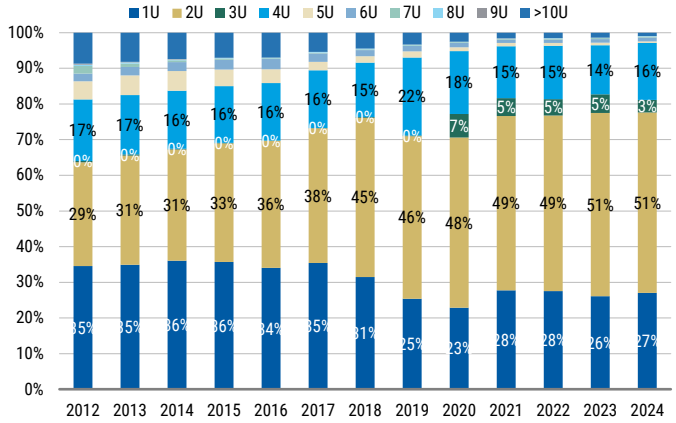


King Slide: Favorable Dynamics for Server Rail Kit

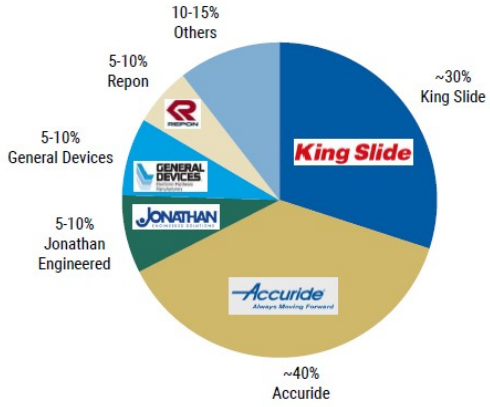
Revenue Breakdown by Product



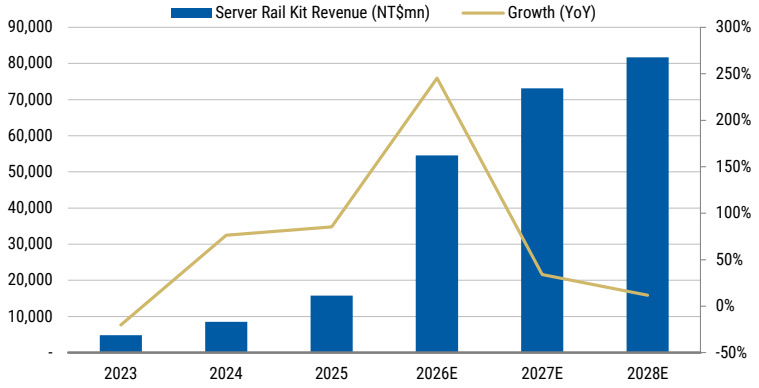
Global Rack Server Shipments, by Size



Server Rail Kit Market Share Breakdown

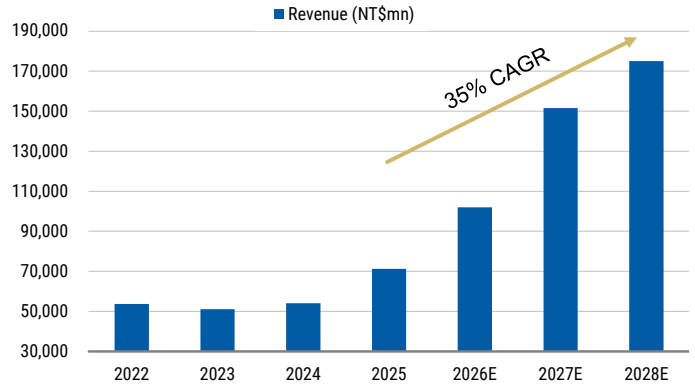


Server Rail Kit Revenue Trend

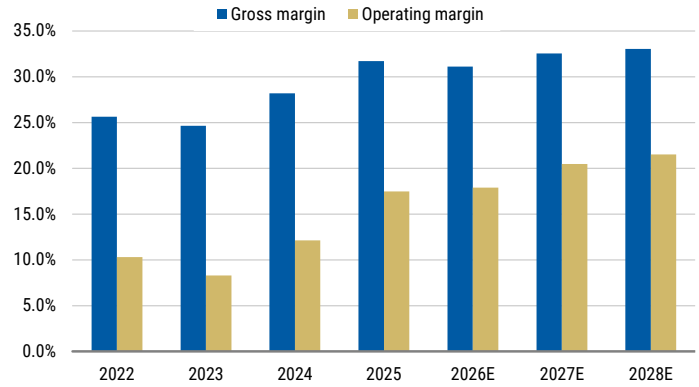


Bizlink: Share Gains in AI Deployment Powering Growth

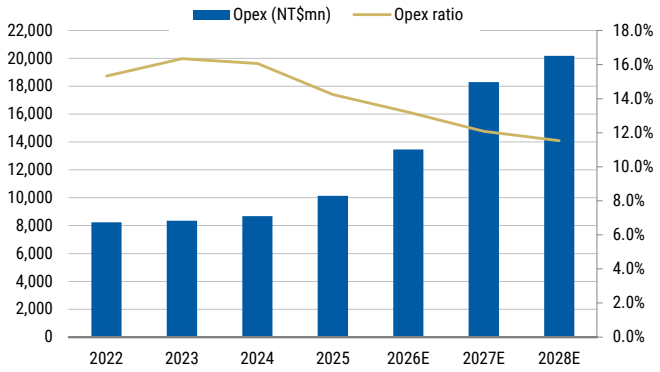
Overall Revenue Trend



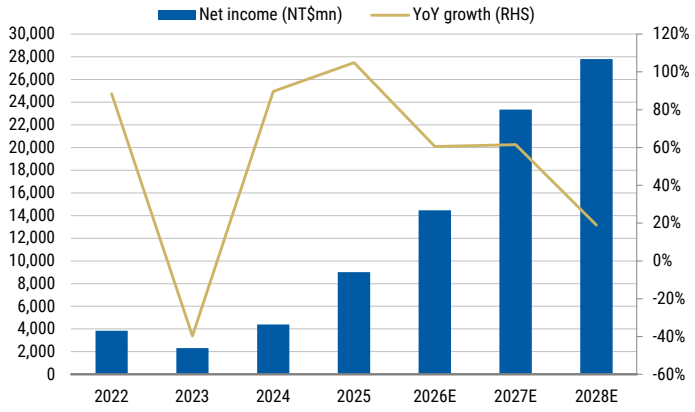
Margin Trend



Operating Expense Trend

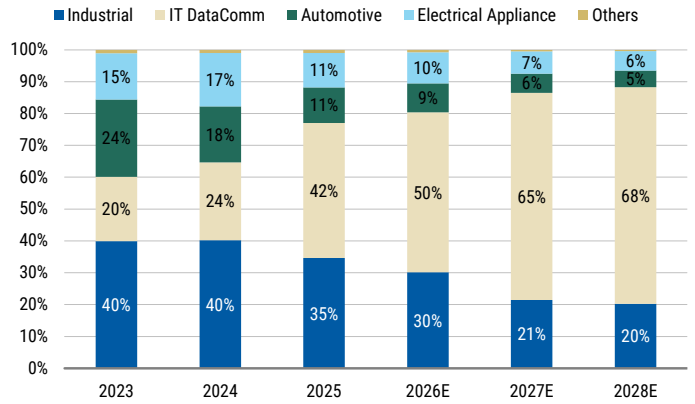


46% Earnings CAGR over 2025-28E

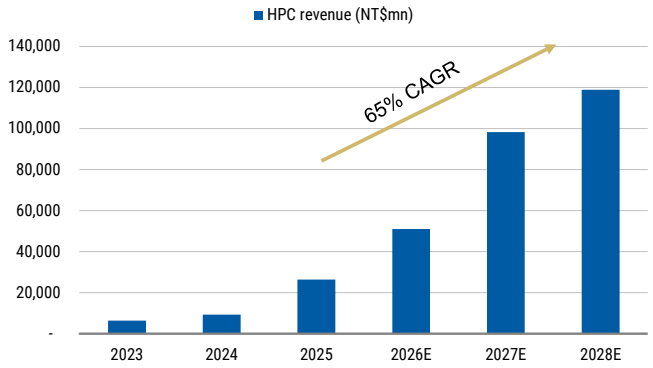


Bizlink: Share Gains in AI Deployment Powering Growth

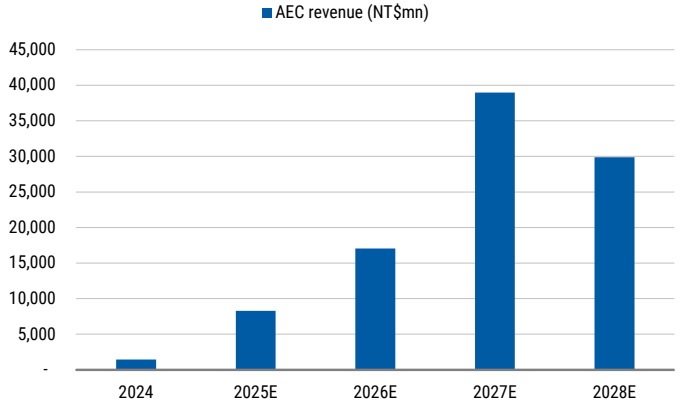
Revenue Breakdown, by Segment



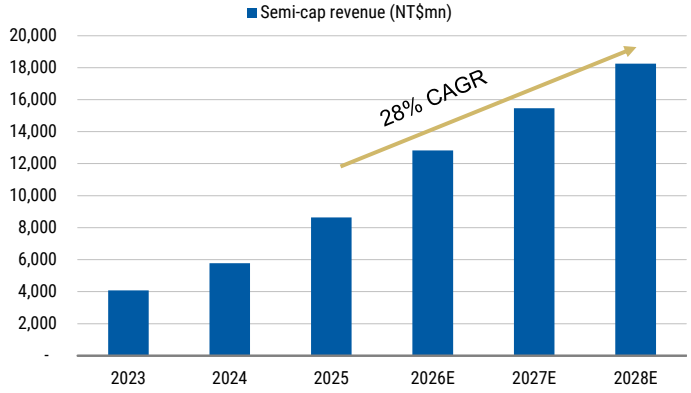
Datacenter/HPC Revenue Trend



Annual AEC Revenue Trend

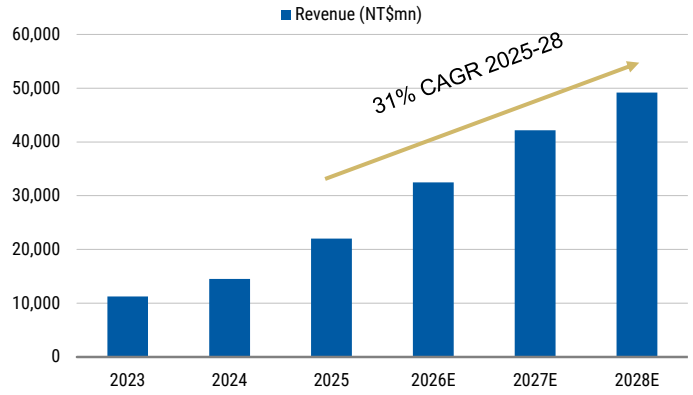


Semi-capital Equipment Annual Revenue Trend

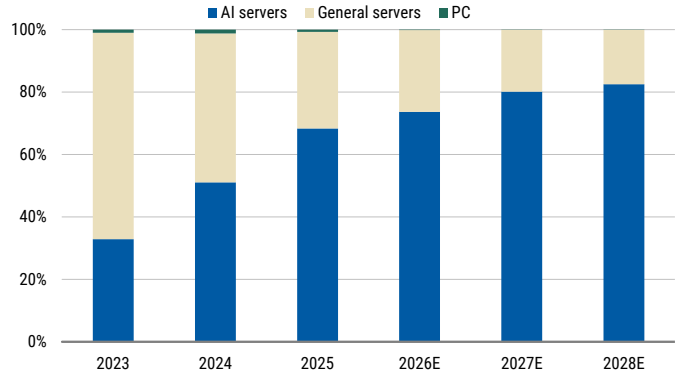


Chenbro: Market Growth and Share Gains to Support Optimistic 2026 Outlook

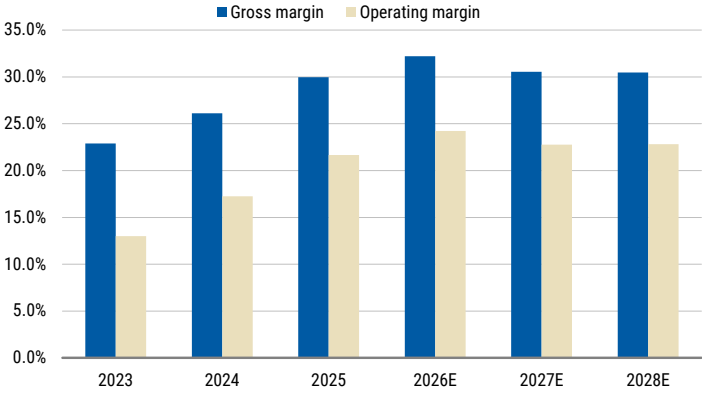
Annual Revenue Trend



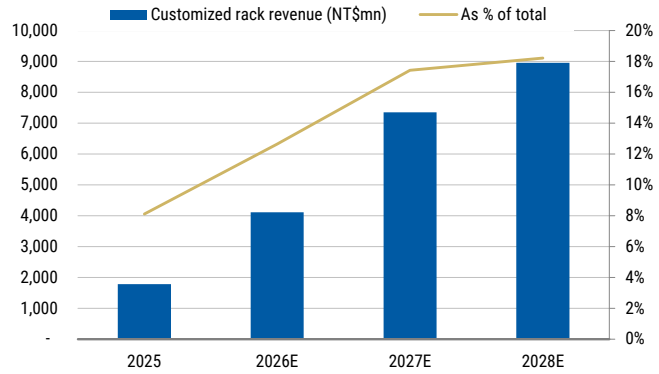
Revenue Breakdown



Margin Trend

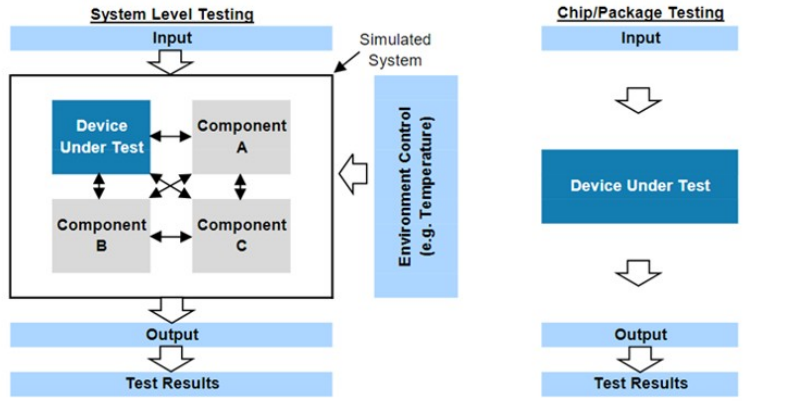


Customized Rack Revenue Contribution



Chroma: Fueled by Multiple AI Drivers

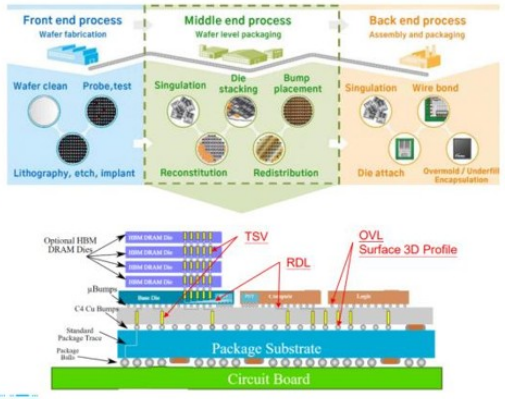
System-level Testing vs. Chip/Package Testing



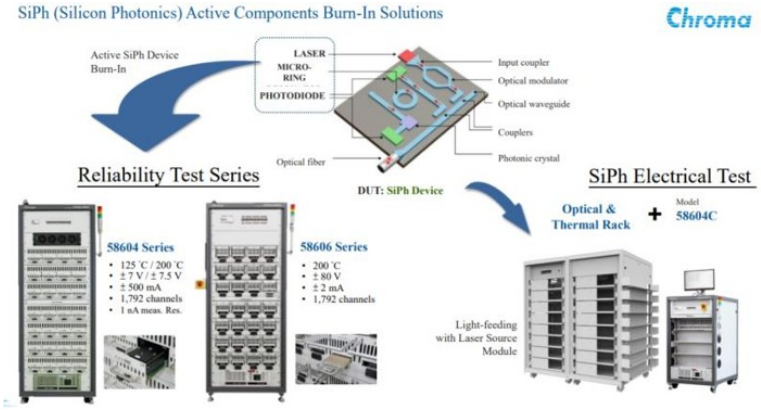
Offerings for Metrology in Advanced Packaging



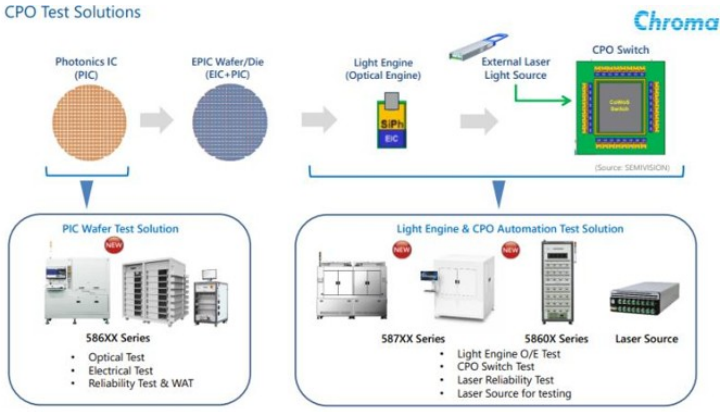
- ✓ Nondestructive and rapid surface profile measurement and analysis.
- ✓ **Advanced Packaging Applications:**
  - TSV
  - RDL
  - Overlay (OVL)
  - Surface 3D profile
- ✓ SEMI S2 certified.
- ✓ Semi-auto or Fully-auto



Offerings in Silicon Photonics

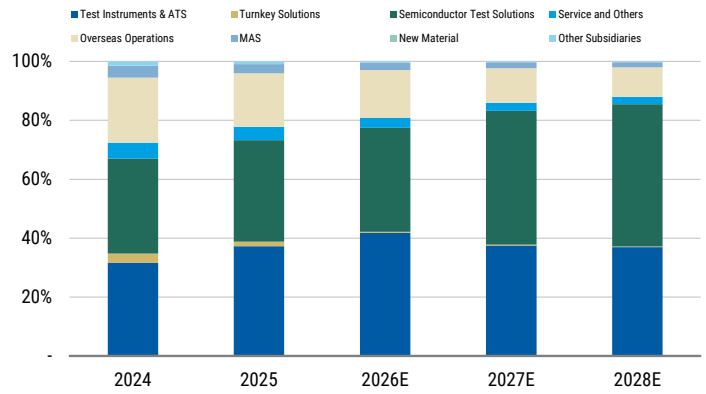


Offerings in CPO Testing Solutions

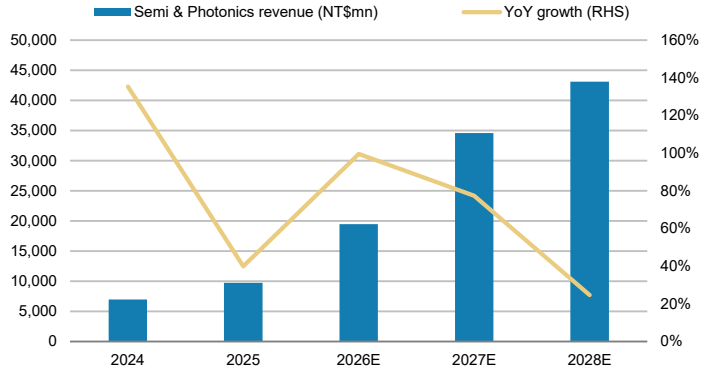


Chroma: Fueled by Multiple AI Drivers

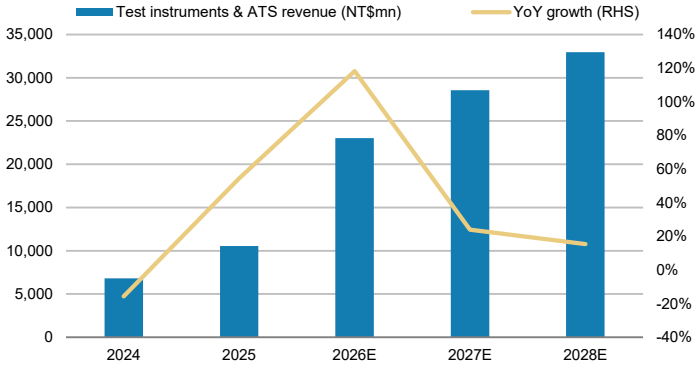
Revenue Breakdown by Segment



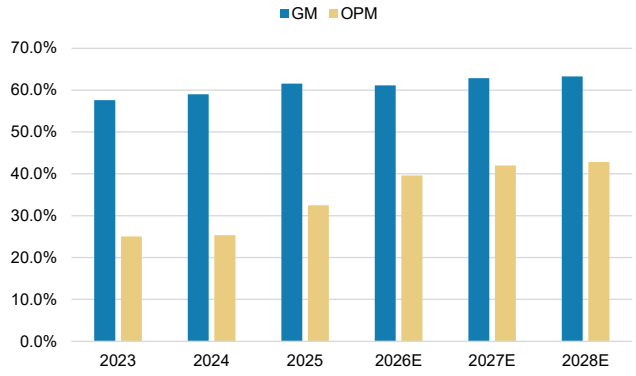
Semi & Photonics Revenue Trend



Testing Instruments & ATS Revenue Trend

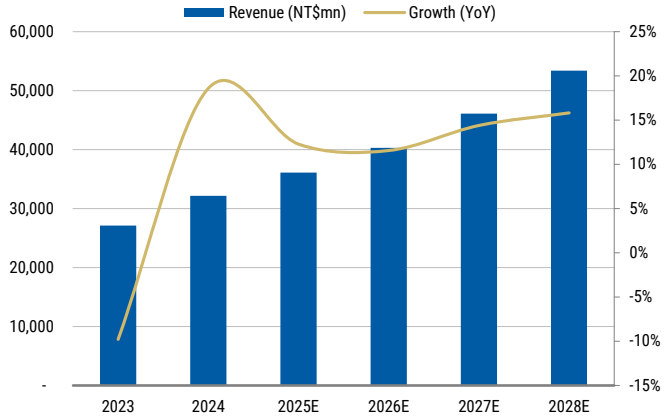


Margin Trend

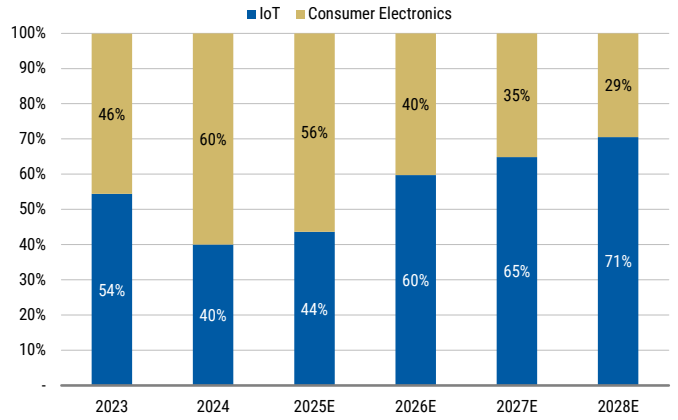


E Ink: Lack of Catalyst in Near Term

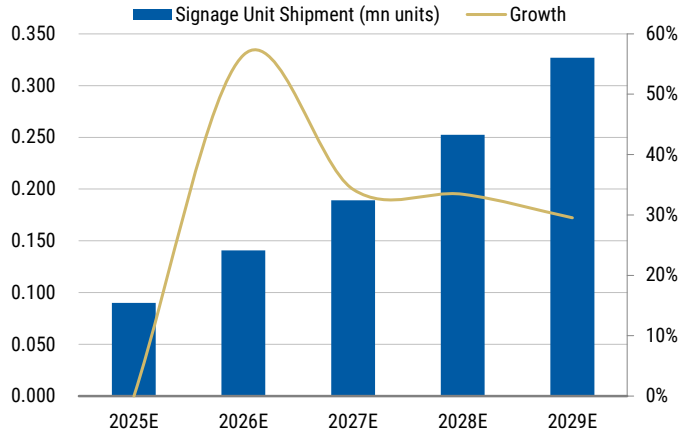
14% Revenue CAGR over 2025-28E



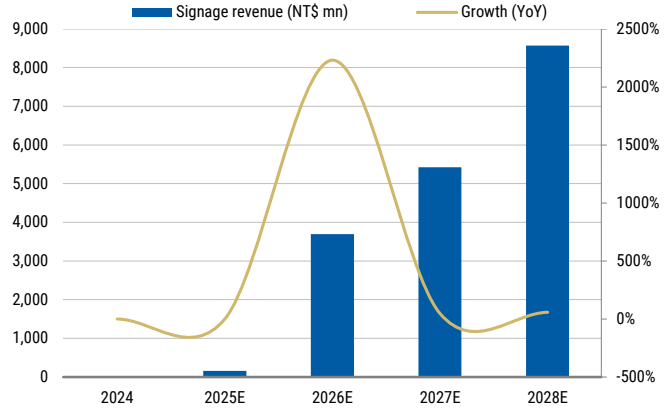
Revenue Breakdown by Segment



E-paper Signage Shipment Forecasts

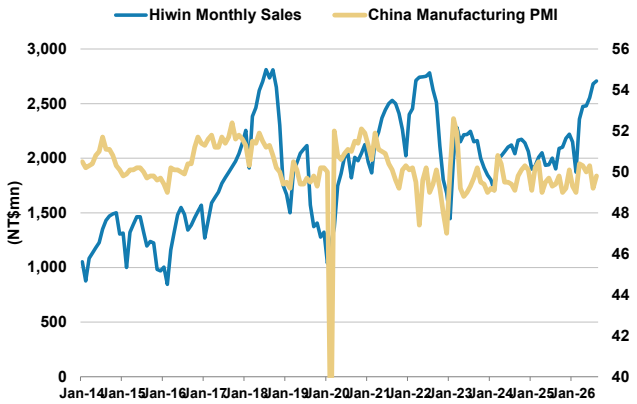


Signage Revenue Trend

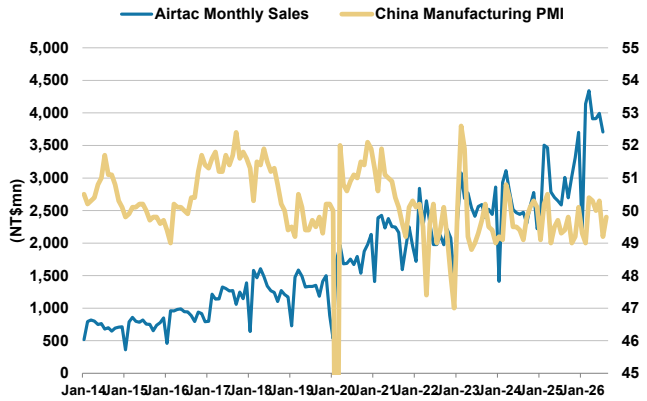


Automation

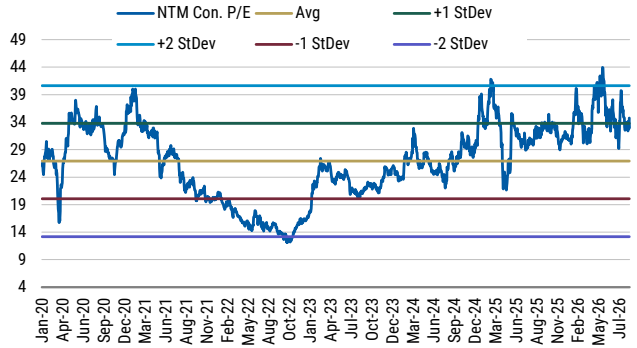
Hiwin Monthly Sales vs. China Manufacturing PMI



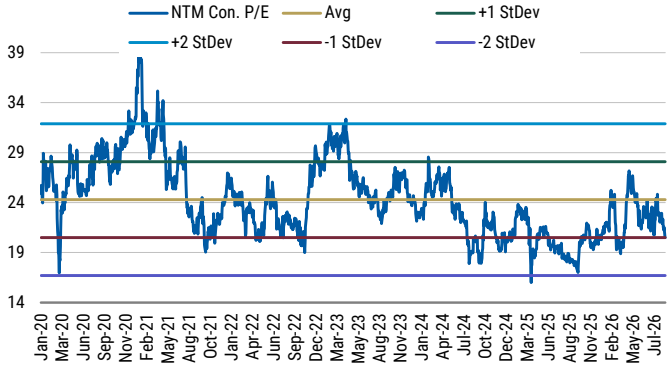
AirTAC Monthly Sales vs. China Manufacturing PMI



Hiwin NTM P/E

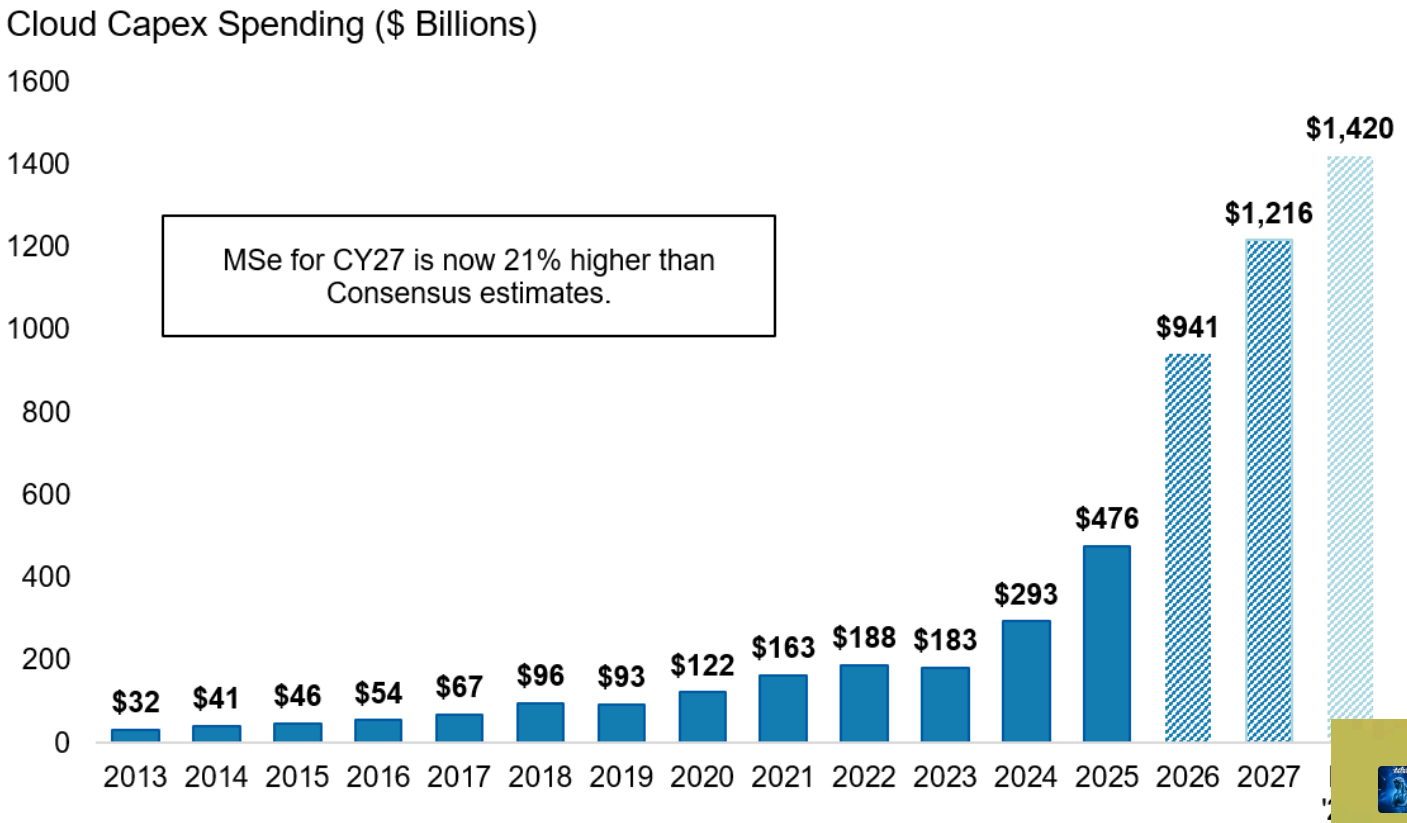


AirTAC NTM P/E



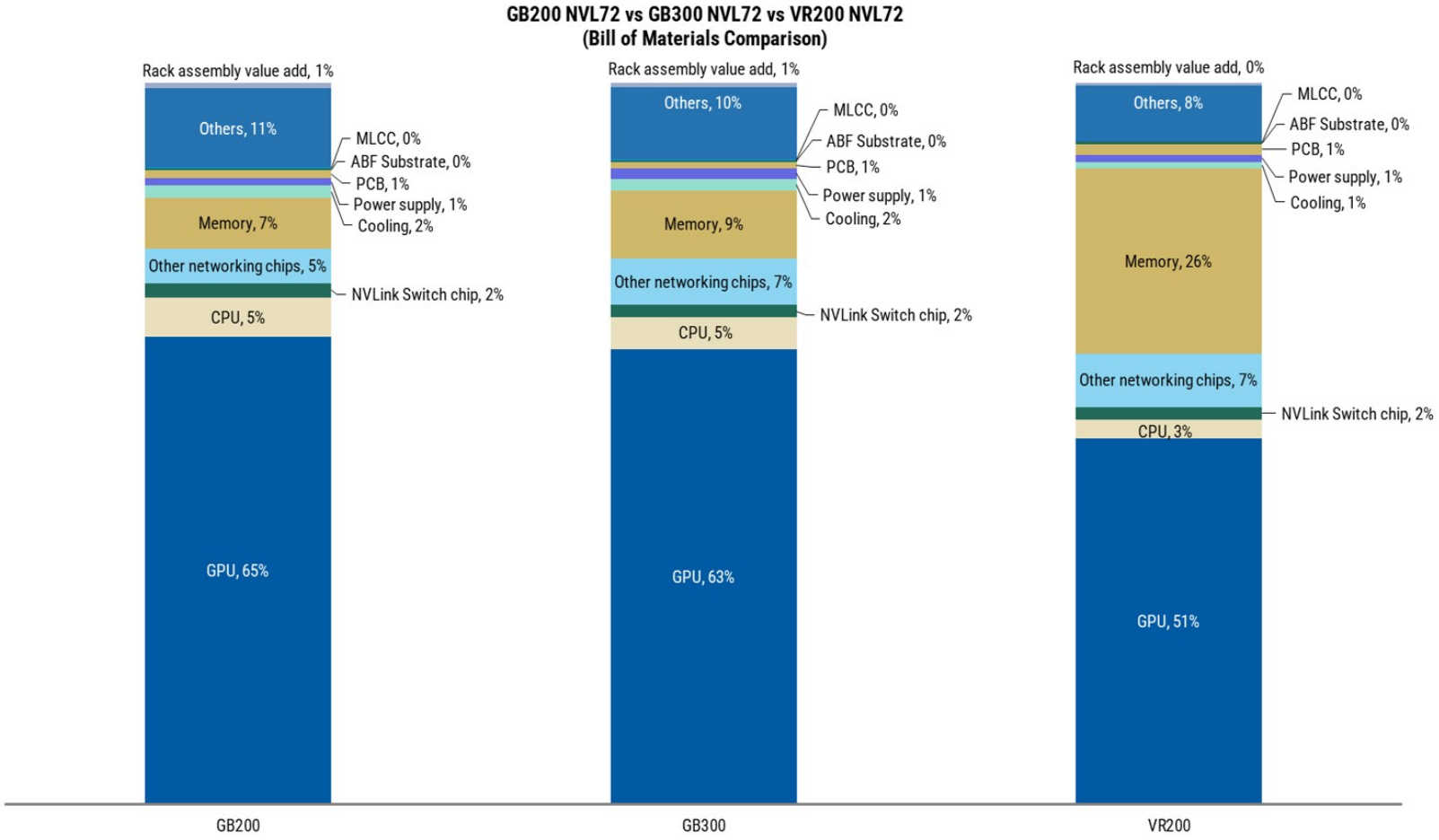
Howard Kao

AI Server Momentum Remains Strong



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更多资料请加V

Owing to Recent Increase in Memory Prices, Memory Will Become 25%+ of Rubin BOM



We Estimate a Single VR200 NVL72 Rack Will Cost Hyperscalers ~US$7.8mn

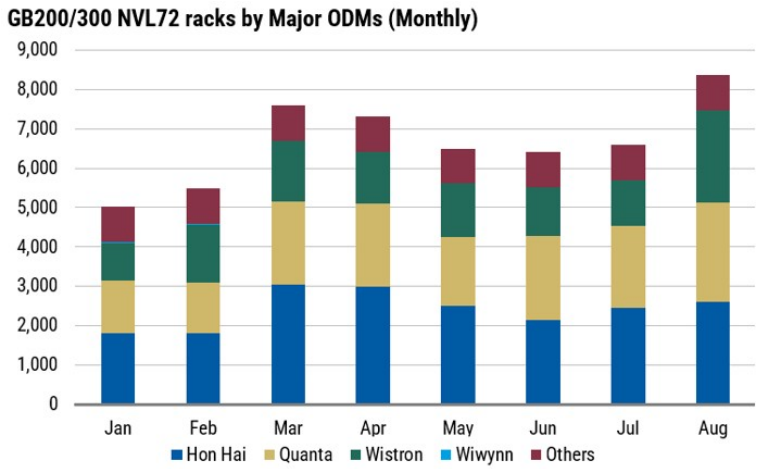
Nvidia NVL72 Bill of Materials	GB300	VR200	*Diff.*
GPU	$2,520,000	$3,960,000	*57%*
CPU	$180,000	$180,000	*0%*
NVLink Switch chip	$64,800	$144,000	*122%*
Other networking chips	$261,000	$576,000	*121%*
Memory	$373,939	$2,001,600	*435%*
Cooling	$64,610	$72,080	*12%*
Power supply	$57,600	$76,000	*32%*
PCB	$35,100	$116,730	*233%*
ABF Substrate	$11,160	$20,340	*82%*
MLCC	$1,530	$4,320	*182%*
Others	$402,412	$623,278	*55%*
Rack assembly value add	$22,400	$28,800	*29%*
Total	**$3,994,551**	**$7,803,148**	***95%***

Our Bottom-up Analysis Shows ODM Value-added per Rack Will Increase ~38% for VR200

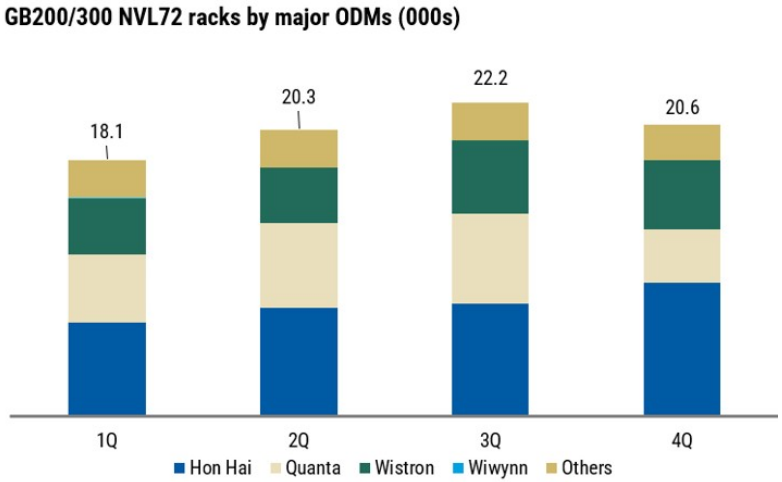
ODM Value-Add per rack	GB300	VR200
Compute Board Assembly/Test	$12,096	$16,200
Compute Tray Assembly/Test	$28,800	$32,400
Switch Board Assembly/Test	$2,475	$3,150
Switch Tray Assembly/Test	$2,700	$3,150
Rack Assembly/Test	$22,400	$28,800
BF DPU Assembly/Test	$1,170	$1,170
CX/Orchid Module Assembly/Test	$0	$3,600
Other peripheral boards	$3,150	$1,260
Cooling components	$12,922	$14,416
Others	$22,500	$45,500
Total ODM Value-Add	**$108,213**	**$149,646**

We Forecast 2026 GB200/300 Racks To Be 80-90K

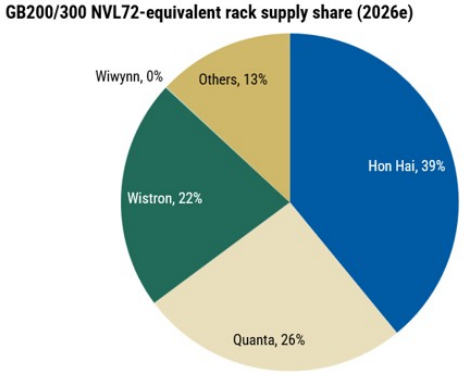
GB200/300 NVL72-equivalent Monthly Rack Output (2026e)



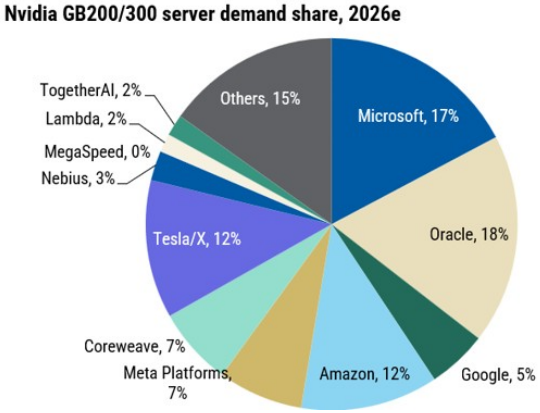
GB200/300 NVL72-equivalent Quarterly Rack Output (2026e)



GB200/300 Rack Supply Share by Major ODMs (2026e)

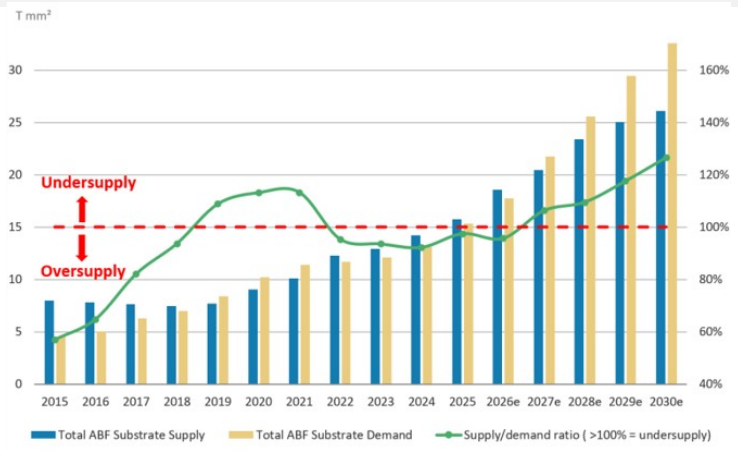


GB200/300 Rack Demand Share (2026e)

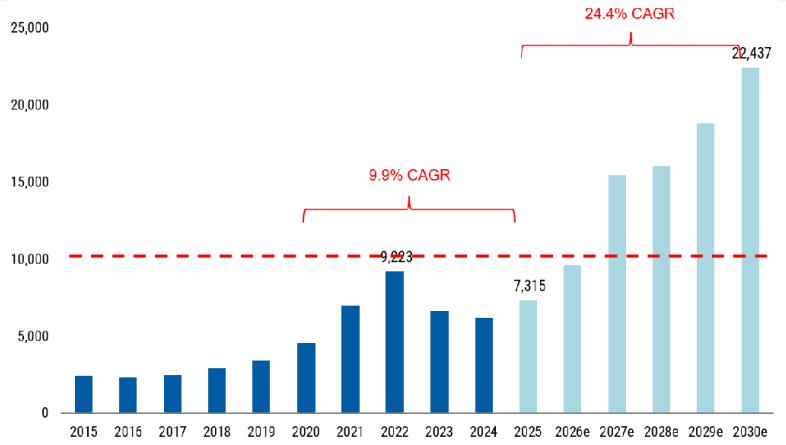


ABF Substrates: Undersupply From 2027

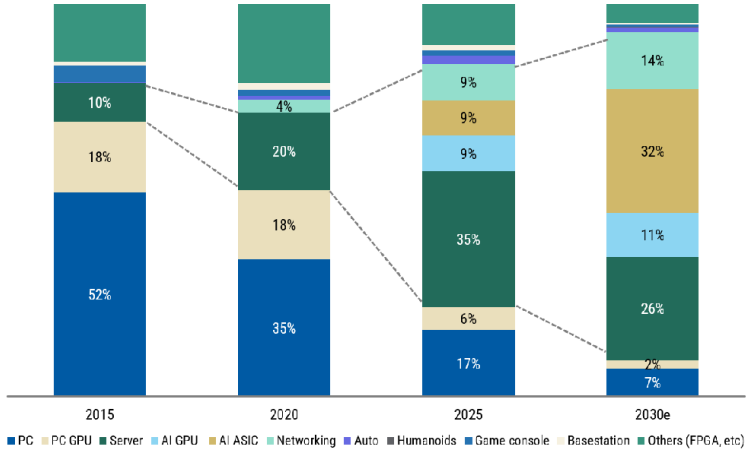
Expect ABF Substrate Undersupply From 2027 Onwards



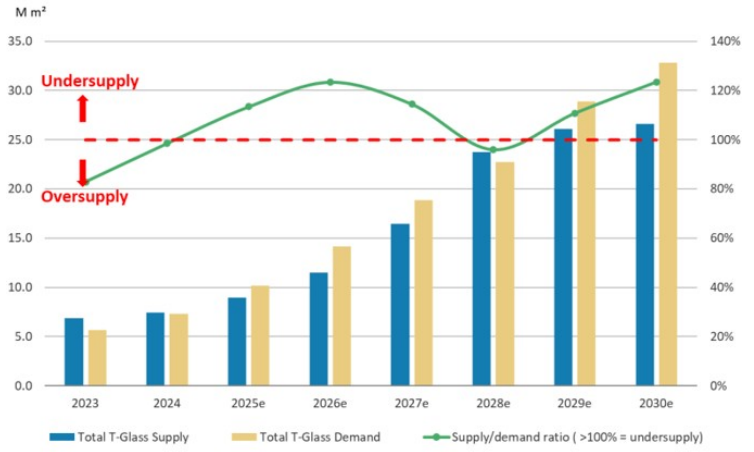
We are in the Early Innings of an AI-driven Upcycle



AI-related Applicated Expected to Rise to 75%+ by 2030



Expect T glass to Remain Undersupplied Until 2028



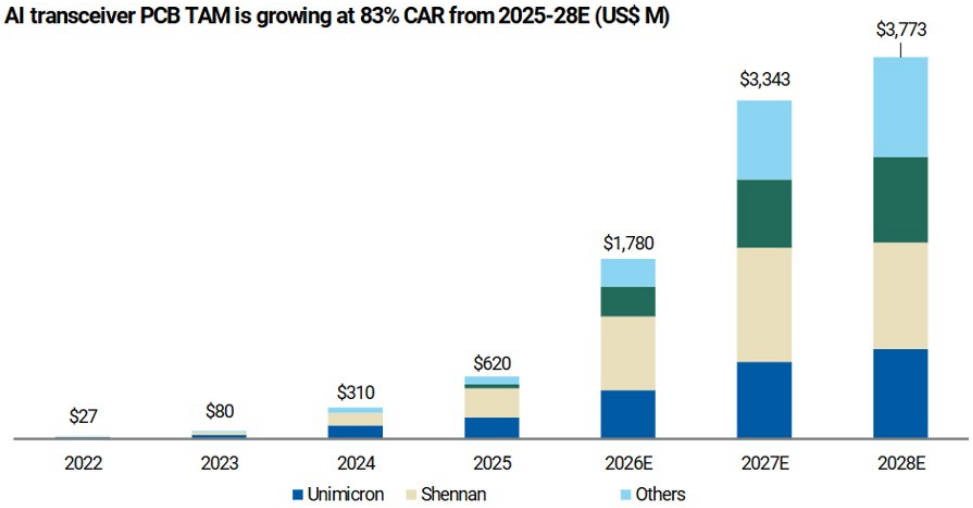
Optical Transceivers: PCB beneficiaries of AI Interconnect Build-out

(mn units)			
New Estimates	**2026E**	**2027E**	**2028E**
800G	44	63	64
1.6T	29	79	87
3.2T	0	0	8
Total	**73**	**141**	**158**

Previous Estimates	**2026E**	**2027E**	**2028E**
800G	34	48	54
1.6T	19	24	27
3.2T	0	0	5
Total	**53**	**71**	**85**

Pct. of change	**2026E**	**2027E**	**2028E**
800G	29%	31%	19%
1.6T	52%	233%	226%
3.2T	--	--	60%
Total	38%	98%	86%

	400G	800G	1.6T	3.2T
Layers	10-12L 2-3 press HDI	12-14L, 4-8L mSAP or HDI	14-16L 6-10L mSAP	mSAP
Process	HDI	HDI or mSAP	mSAP	SAP (IC substrate)
CCL Spec	M6	M7(LDK1) / M7+ (LDK2)	M7+ / M8 (LDK2)	M8+ (M8.5) ?
ASP (US$)	$5-15	$15-25	$20-30	$50+ ?
GM Est.	20-30%	30-40%	40-50%+	60%+ ?
Suppliers	Unmicron, Shennan, WUS, other smaller suppliers.	Unimicron, Shennan, WUS, Compeq, etc.	Unimicron, Shennan, Compeq, WUS, etc.	Unimicron, Shennan, etc.



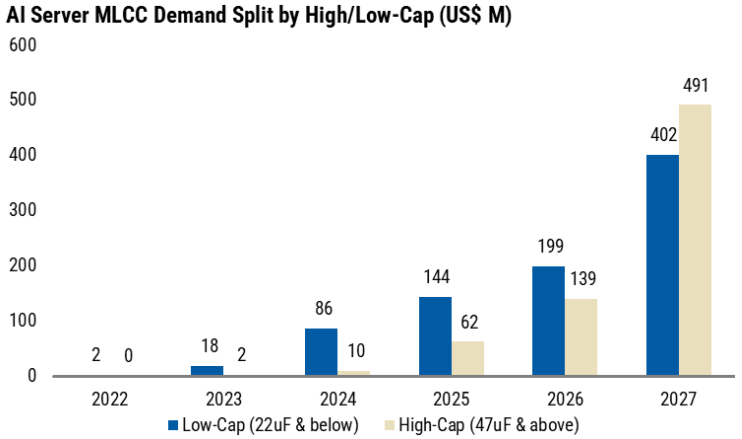
Our 3Q26 NB Build Estimate is 27.3mn Units (-10% q/q, -20% y/y)

Shipment (unit: k)	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25E	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Jul-26E	Diff.	Aug-26
Quanta	2,800	3,100	4,900	3,300	3,800	5,000	4,000	4,100	4,600	3,500	3,500	3,900	2,700	2,000	5,300	3,500	3,500	4,500	2,800	3,500	-20%	3,100
Wistron	1,500	1,500	1,900	1,700	1,800	2,400	2,000	2,200	2,200	2,100	2,200	2,600	1,700	1,600	2,800	1,800	1,700	2,000	1,600	2,200	-27%	1,600
Others	1,500	1,600	1,900	1,700	1,800	2,100	1,700	1,800	1,900	1,600	1,700	2,000	1,700	1,500	2,200	1,500	1,500	2,400	1,600	1,500	7%	1,600
Compal	2,000	2,100	2,900	2,200	2,400	2,500	2,300	2,300	2,500	2,100	2,300	2,400	1,600	1,500	2,800	1,800	2,000	2,400	1,800	1,800	0%	2,100
Pegatron	610	575	700	610	775	990	750	825	825	775	710	925	700	425	675	525	575	650	400	550	-27%	600
Total	8,410	8,875	12,300	9,510	10,575	12,990	10,750	11,225	12,025	10,075	10,410	11,825	8,400	7,025	13,775	9,125	9,275	11,950	8,200	8,550	-4%	9,000
MoM %																						
Quanta	-35%	11%	58%	-33%	15%	32%	-20%	2%	12%	-24%	0%	11%	-31%	-26%	165%	-34%	0%	29%	-38%	-29%		11%
Wistron	-17%	0%	27%	-11%	6%	33%	-17%	10%	0%	-5%	5%	18%	-35%	-6%	75%	-36%	-6%	18%	-20%	-25%		0%
Others	-25%	7%	19%	-11%	6%	17%	-19%	6%	6%	-16%	6%	18%	-15%	-12%	47%	-32%	0%	60%	-33%	-38%		0%
Compal	-13%	5%	38%	-24%	9%	4%	-8%	0%	9%	-16%	10%	4%	-33%	-6%	87%	-36%	11%	20%	-25%	-25%		17%
Pegatron	-19%	-6%	22%	-13%	27%	28%	-24%	10%	0%	-6%	-8%	30%	-24%	-39%	59%	-22%	10%	13%	-38%	-15%		50%
Total	-25%	6%	39%	-23%	11%	23%	-17%	4%	7%	-16%	3%	14%	-29%	-16%	96%	-34%	2%	29%	-31%	-28%		10%
YoY%																						
Quanta	-3%	7%	4%	3%	-5%	11%	18%	-5%	-6%	9%	-3%	-9%	-4%	-35%	8%	6%	-8%	-10%	-30%	-20%		-24%
Wistron	15%	7%	0%	6%	6%	33%	25%	29%	16%	17%	29%	44%	13%	7%	47%	6%	-6%	-17%	-20%	-25%		-27%
Others	0%	23%	12%	13%	6%	24%	0%	6%	6%	-6%	0%	0%	13%	-6%	16%	-12%	-17%	14%	-6%	-12%		-11%
Compal	-9%	-9%	-3%	-21%	-17%	-17%	-8%	-21%	-14%	-25%	-15%	4%	-20%	-29%	-3%	-18%	-17%	-4%	-22%	-22%		-9%
Pegatron	16%	53%	8%	16%	6%	28%	-3%	-6%	0%	35%	14%	23%	15%	-26%	-4%	-14%	-26%	-34%	-47%	-27%		-27%
Total	0%	7%	3%	-1%	-4%	10%	8%	-2%	-2%	0%	1%	6%	0%	-21%	12%	-4%	-12%	-8%	-24%	-20%		-20%

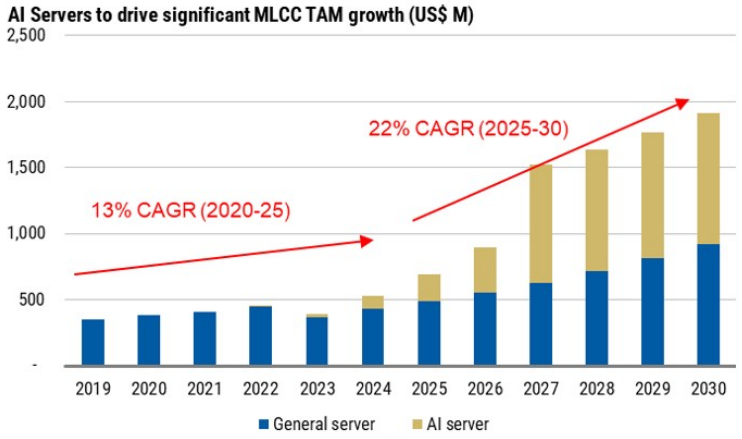
Shipment (unit: k)	1Q24	2Q24	3Q24	4Q24	1Q25	2Q25	3Q25	4Q25	1Q26	2Q26	3Q26E	3Q26E	Diff.
Quanta	10,500	11,700	12,600	11,100	10,800	12,100	12,700	10,900	10,000	11,500	9,500	11,000	-14%
Wistron	4,600	5,100	5,200	5,300	4,900	5,900	6,400	6,900	6,100	5,500	4,800	4,700	2%
Others	4,500	4,900	5,200	5,400	5,000	5,600	5,400	5,300	5,400	5,400	4,900	5,000	-2%
Compal	7,500	8,700	8,300	7,800	7,000	7,100	7,100	6,800	5,900	6,200	6,400	6,400	0%
Pegatron	1,550	2,030	2,475	1,950	1,885	2,375	2,400	2,410	1,800	1,750	1,700	1,800	-6%
Total	28,650	32,430	33,775	31,550	29,585	33,075	34,000	32,310	29,200	30,350	27,300	28,900	-6%
QoQ %													
Quanta	1%	11%	8%	-12%	-3%	12%	5%	-14%	-8%	15%	-17%	-4%	
Wistron	-13%	11%	2%	2%	-8%	20%	8%	8%	-12%	-10%	-13%	-15%	
Others	0%	9%	6%	4%	-7%	12%	-4%	-2%	2%	0%	-9%	-7%	
Compal	-10%	16%	-5%	-6%	-10%	1%	0%	-4%	-13%	5%	3%	3%	
Pegatron	-6%	31%	22%	-21%	-3%	26%	1%	0%	-25%	-3%	-3%	3%	
Total	-5%	13%	4%	-7%	-6%	12%	3%	-5%	-10%	4%	-10%	-5%	
YoY%													
Quanta	-3%	-7%	-4%	7%	3%	3%	1%	-2%	-7%	-5%	-25%	-13%	
Wistron	18%	11%	0%	0%	7%	16%	23%	30%	24%	-7%	-25%	-27%	
Others	2%	0%	6%	20%	11%	14%	4%	-2%	8%	-4%	-9%	-7%	
Compal	-1%	0%	-11%	-6%	-7%	-18%	-14%	-13%	-16%	-13%	-10%	-10%	
Pegatron	-9%	-2%	-1%	18%	22%	17%	-3%	24%	-5%	-26%	-29%	-25%	
Total	1%	-1%	-4%	5%	3%	2%	1%	2%	-1%	-8%	-20%	-15%	

Cloud and Edge AI to Add ~US$1B TAM to the Overall MLCC Market by 2027

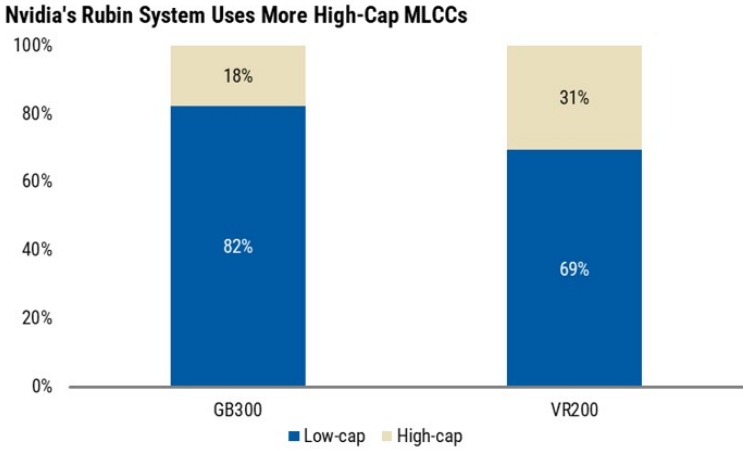
Cloud AI to Drive ~US$1B TAM by 2026 (US$ bn)



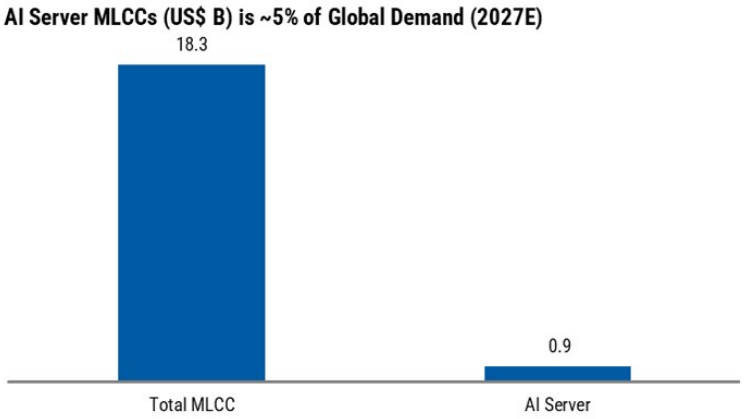
AI Servers to Drive Significant MLCC TAM Growth (US$ M)



AI Servers to Use Significantly More High-cap (47uF+) MLCCs



AI Server MLCC is ~3% of Global Units but ~5% of Global Value



Our 3Q26 iPhone Build Estimate is 54mn Units (+4% q/q, -2% y/y)

mn units	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023	1Q24	2Q24	3Q24	4Q24	2024	1Q25	2Q25	3Q25	4Q25	2025	1Q26	2Q26e	3Q26e
iPhone Sell-in																							
iPhone SE3 / SE 5G / 16e / 17e	3.0	13.0	6.0	2.0	24.0	1.0	2.5	5.0	3.0	11.5	1.0	2.0	5.0	3.0	11.0	4.0	9.0	4.0	1.0	18.0	2.0	10.0	8.0
iPhone XR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 11	1.0	1.0	0.5	0.5	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 12 mini (5.4")	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 12 (6.1")	2.0	1.0	1.0	0.5	4.5	0.5	0.5	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 12 Pro (6.1")	1.0	0.5	0.5	0.5	2.5	0.5	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 12 Pro Max (6.7")	1.0	0.5	0.5	0.5	2.5	0.5	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 13 mini (5.4")	5.0	2.0	2.0	1.0	10.0	1.0	0.5	-	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 13 (6.1")	16.0	11.5	8.0	3.0	38.5	1.0	0.5	-	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-
iPhone 13 Pro (6.1")	13.0	8.0	6.0	3.5	30.5	1.0	2.0	1.0	-	4.0	0.5	0.5	-	-	1.0	-	-	-	-	-	-	-	-
iPhone 13 Pro Max (6.7")	12.0	7.5	5.0	4.0	28.5	2.0	2.0	1.0	-	5.0	0.5	0.5	-	-	1.0	-	-	-	-	-	-	-	-
iPhone 14 (6.1")			6.5	13.0	19.5	7.0	4.0	5.0	2.0	18.0	1.0	0.5	-	-	1.5	-	-	-	-	-	-	-	-
iPhone 14 Plus (6.7")			2.0	13.5	15.5	5.0	3.0	1.0	1.0	10.0	1.0	0.5	-	-	1.5	-	-	-	-	-	-	-	-
iPhone 14 Pro (6.1")			6.0	16.0	22.0	15.0	12.0	7.0	3.0	37.0	2.0	2.0	1.0	1.0	6.0	1.0	1.0	1.0	-	3.0	-	-	-
iPhone 14 Pro Max (6.7")			6.0	19.0	25.0	19.5	14.0	9.0	4.0	46.5	2.0	2.0	1.0	1.0	6.0	1.0	1.0	1.0	-	3.0	-	-	-
iPhone 15 (6.1")								6.0	12.0	18.0	6.0	5.0	4.0	1.0	16.0	1.0	0.5	0.5	0.5	2.5	-	-	-
iPhone 15 Plus (6.7")								5.0	10.0	15.0	4.0	3.0	1.0	1.0	9.0	1.0	0.5	0.5	0.5	2.5	-	-	-
iPhone 15 Pro (6.1")								8.0	16.0	24.0	12.0	10.0	8.5	2.0	32.5	2.0	2.0	2.0	1.0	7.0	1.0	1.0	-
iPhone 15 Pro Max (6.7")								2.0	24.0	26.0	18.0	13.0	10.5	3.0	44.5	3.0	3.0	2.0	1.0	9.0	1.0	1.0	-
iPhone 16 (6.1")											-	-	6.0	12.0	18.0	5.0	4.0	4.0	1.0	14.0	2.0	2.0	1.0
iPhone 16 Plus (6.7")											-	-	5.0	6.0	11.0	4.0	3.0	1.0	-	8.0	-	-	-
iPhone 16 Pro (6.3")											-	-	8.0	17.0	25.0	11.5	9.5	4.0	2.0	27.0	2.0	2.0	2.0
iPhone 16 Pro Max (6.9")											-	-	4.0	26.0	30.0	16.5	13.0	10.0	4.0	43.5	5.0	3.0	2.0
iPhone 17 (6.1")											-	-	-	-	-	-	-	6.0	16.0	22.0	10.0	8.0	6.0
iPhone Air (6.7")											-	-	-	-	-	-	-	4.0	4.0	8.0	-	-	-
iPhone 17 Pro (6.3")											-	-	-	-	-	-	-	8.0	22.0	30.0	18.0	13.0	9.0
iPhone 17 Pro Max (6.9")											-	-	-	-	-	-	-	7.0	23.0	30.0	15.0	12.0	9.0
iPhone 18 Pro (6.3")																							8.0
iPhone 18 Pro Max (6.9")																							8.0
iPhone Fold																							1.0
Total	**54.0**	**45.0**	**50.0**	**77.0**	**226.0**	**54.0**	**41.0**	**50.0**	**75.0**	**220.0**	**48.0**	**39.0**	**54.0**	**73.0**	**214.0**	**50.0**	**46.5**	**55.0**	**76.0**	**227.5**	**56.0**	**52.0**	**54.0**
YoY	*7%*	*1%*	*0%*	*-9%*	*-2%*	*0%*	*-9%*	*0%*	*-3%*	*-3%*	*-11%*	*-5%*	*8%*	*-3%*	*-3%*	*4%*	*19%*	*2%*	*4%*	*6%*	*12%*	*12%*	*-2%*
QoQ	*-36%*	*-17%*	*11%*	*54%*		*-30%*	*-24%*	*22%*	*50%*		*-36%*	*-19%*	*38%*	*35%*		*-32%*	*-7%*	*18%*	*38%*		*-26%*	*-7%*	*4%*

- For full-year 2026, our supply-chain checks suggest total iPhone build volume could rise in the low to mid single digits y/y.
- For foldable iPhone model in 2H26, we continue to expect 7-8M iPhone Fold builds in 2H26 (no change) .

Source: Company data,

NVIDIA GPU ABF/CCL/PCB Roadmap

NVIDIA	H100	H200	B200	GB200 NVL72	GB300 NVL72	VR200 NVL144	VR300
ABF Substrate							
Substrate size	55mm x 58mm	55mm x 58mm	73mm x 81mm	73mm x 81mm	73mm x 81mm	83mm x 97mm	83mm x 97mm
Layer count	12L	12L	14L	14L	14L	18L	18L
Supplier	Ibiden	Ibiden	Ibiden/Unimicron	Ibiden/Unimicron	Ibiden/Unimicron	Ibiden/Unimicron	Ibiden/Unimicron
OCP Accelerator Module (OAM)							
CCL Spec.	Very low-loss (M6)	Very low-loss (M6)	Ultra low-loss (M7)	Extreme low-loss (M8) + Low-loss (M4)	Extreme low-loss (M8) + Low-loss (M4)	Extreme low-loss (M8) + Low-loss (M4)	Extreme low-loss (M8) + Low-loss (M4) ?
CCL supplier	EMC	EMC	Doosan	Doosan	Doosan	Doosan	Doosan, ?
PCB Size	152mm x 80.5mm	152mm x 80.5mm	170mm x 86.5mm	305.5mm x 222mm	305.5mm x 222mm	320.8mm x 233.1mm	?
PCB Spec.	18L HDI (5+8+5)	18L HDI (5+8+5)	20L HDI (5+10+5)	22L HDI (5+12+5)	22L HDI (5+12+5)	26L HDI (6+14+6)	?
PCB Supplier	UMTC, TTM, WUS	UMTC, TTM, WUS	UMTC, TTM, WUS, VGT	VGT, UMTC	VGT, UMTC	VGT, UMTC, ZDT, etc.	VGT, UMTC, ZDT, ?
Universal Baseboard (UBB)							
CCL Spec.	Ultra low-loss (M7)	Ultra low-loss (M7)	Extreme low-loss (M8) + Low-loss (M4)	NA	NA	NA	NA
CCL supplier	EMC, Doosan	EMC, Doosan	Doosan, EMC	NA	NA	NA	NA
PCB Spec.	24L PTH	24L PTH	18L PTH	NA	NA	NA	NA
PCB Supplier	WUS, TTM, ISU	WUS, TTM, ISU	WUS, TTM, ISU, UMTC	NA	NA	NA	NA
Switch board							
CCL Spec.	Ultra low-loss (M7)	Ultra low-loss (M7)	Ultra low-loss (M7), Extreme low-loss (M8)	Extreme low-loss (M8) + Standard loss (M2)	Extreme low-loss (M8) + Standard loss (M2)	Extreme low-loss (M8)	M9Q or hybrid PTFE ?
CCL supplier	EMC, TUC	EMC, TUC	EMC, TUC, Doosan	EMC, Shengyi	EMC, Shengyi	EMC, Shengyi	EMC+Taiflex, Shengyi, ?
PCB Spec.	26-28L	26-28L	28-30L	24L PTH	24L PTH	32L PTH	?
PCB Supplier	WUS, TTM, ISU, GCE	WUS, TTM, ISU, GCE	WUS, TTM, ISU, GCE	WUS, TTM, UMTC, VGT	WUS, TTM, UMTC, VGT	WUS, TTM, UMTC, VGT	WUS, VGT, SCC, ?
Motherboard							
CCL Spec.	Very low-loss (M6)	Very low-loss (M6)	Very low-loss (M6)	NA	NA	NA	NA
CCL supplier	EMC, TUC, ITEQ, Panasonic	EMC, TUC, ITEQ, Panasonic	EMC, TUC, ITEQ, Panasonic	NA	NA	NA	NA
PCB Spec.	16-18L	16-18L	16-20L	NA	NA	NA	NA
PCB Supplier	GCE, WUS, TTM, ISU, Tripod	GCE, WUS, TTM, ISU, Tripod	GCE, WUS, TTM, ISU, Tripod	NA	NA	NA	NA
Midplane (in-tray)							
CCL Spec.						M8	M8? M9?
CCL supplier						EMC	EMC, ?
PCB Spec.						44L PTH	36L PTH?
PCB Supplier						WUS, TTM, Kinwong, VGT, etc.	WUS, TTM, Kinwong, VGT, ?

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