

SUNON FIRST CHOICE GLOBALLY Cooling Solutions

2025 Q1 Operating Results

SUNONwealth Electric Machine Industry Co., Ltd.

2421.TW / 2421 TT

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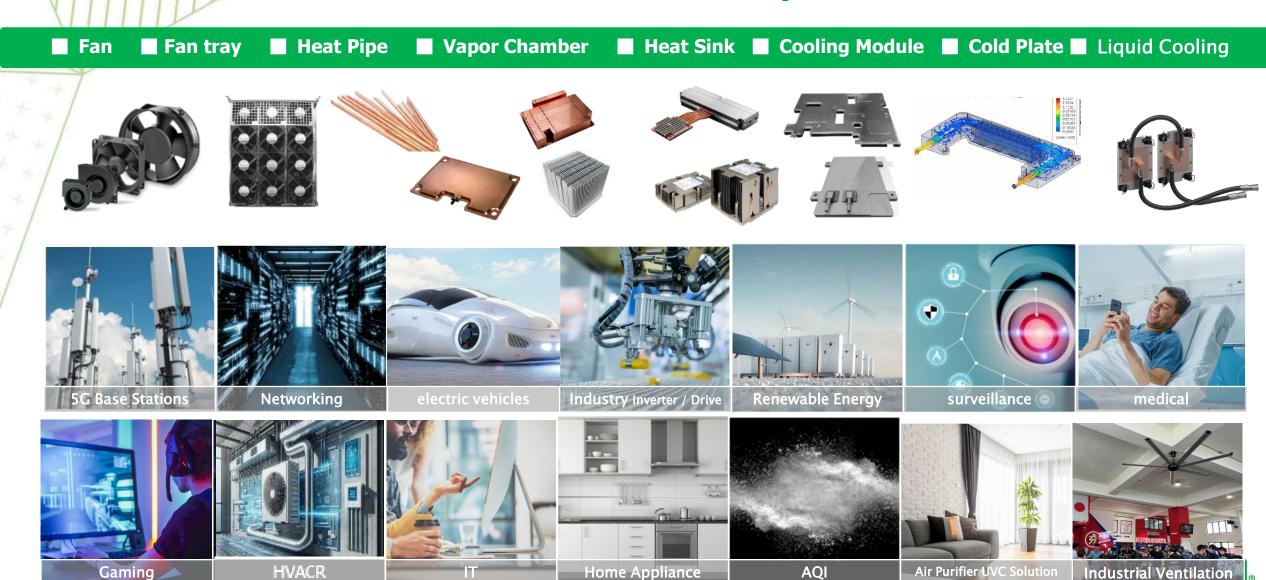
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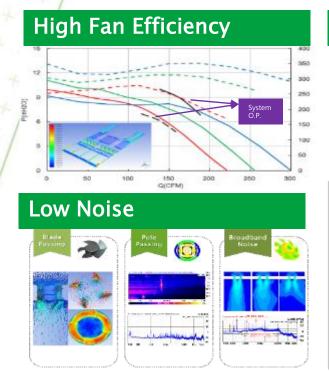


SUNON Thermal Everywhere



Thermal Technology Keeps Pace With the Times

Future will be supported by powerful computing capacity and the ultra-speed Internet with high reliability, which tests the effectiveness of thermal solutions. The change in the world stimulates thermal technology to update and advance to be suitable for real-time computing systems' needs. Technological advancement in heat dissipation provides the most effective operating temperature management to achieve excellence.

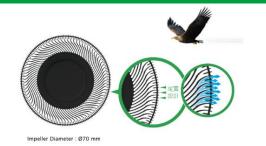


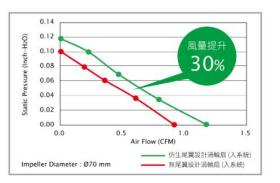


Energy Saving 19000 19000 Power saving 14000 Max.50% 12000 10000 5000 4000 EAN SIZE of Dodglock from Reliability Salt solution: 0.05 % NaCl + 0.35 % ammonia sulphate (Flow is reduced to 20% of a normal ASTM G65 test) Test cycles first 35 days: 15 min. spray/fog followed of 45 min. drying. 3 day with Salt solution 2 days demineralized water Test cycles after 35 days: 30 min. spray/fog followed of 30 min. drying 3 day with Salt solution 2 days demineralized water # Fans are running during the entire test Fans are checked once a day 1. Try to start fan with finger 2. "Exercise" with pressurized air

3. "Dry out" Fan in 45" C oven for 24 Hours

Bionic Blade Design



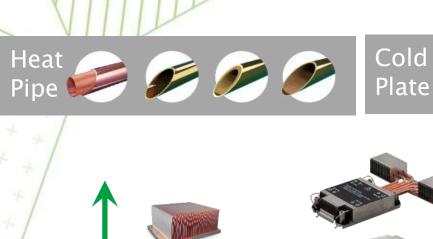




More Cooling Options

Vapor

Chamber





100\\/



Advanced Cooling Solutions 400W~



Liquid Cooling Solution 1KW~



Liquid Immersion Liquid to Air CDU

Pump

80KW~



Technology

Cooling Capability

Extrusion
Die-cast
Forged
Skived

Heat Pipe Vapor Chamber EVAC

Vapor Chamber (3D) High Power Heat Pipe Cold Plate Immersion Cooling

Immersion Cooling Rear Door Heat Exchanger

SUNON_®

Stacked

Traditional Heat Sinks

TDP (W) **30KW**

1500W

Cooling Solution Trend

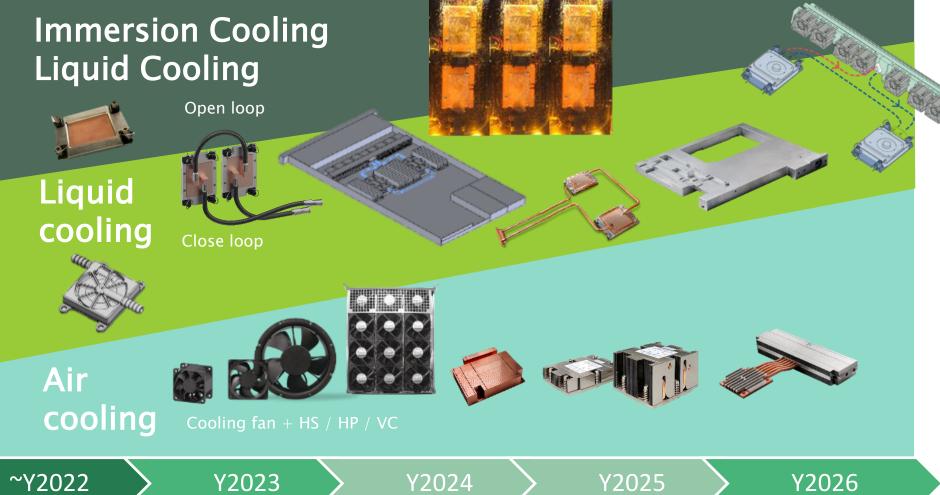
Liquid Cooling

1KW

500W

350W







Fan is still the key component for Liquid cooled Al

NVIDIA	Single B200	B200	B100	H200	H100
	GB200 NVL72	DGX/HGX	HGX	SXM	SXM
GPU architecture		Blackwell		Нор	pper
TDP	1200W	1000W	700W	700W	700W
Cooling	Liquid	Air	Air	Air	Air
	Cooling	Cooling	Cooling	Cooling	Cooling

Estimated # of fans used for GB200 NVL72

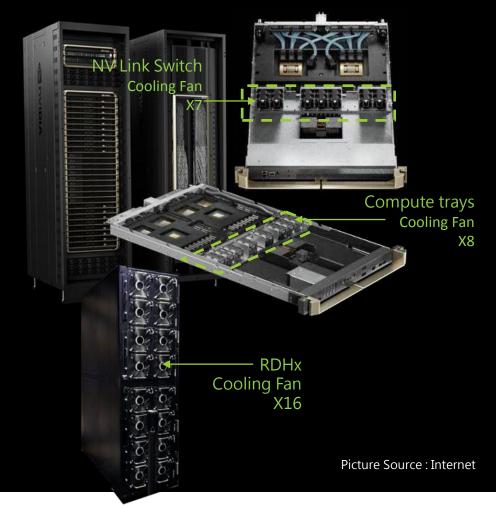
Rack: 4cm dual fan*8 each tray, total #18 computer trays;

NV Link Switch: 4cm dual fan*7 each tray, total #9 trays

Power Supplies: at least #50 fans

In-rack system: Up to #257 cooling fans applied

At lease #16 200mm Axial fans installed in RDHx



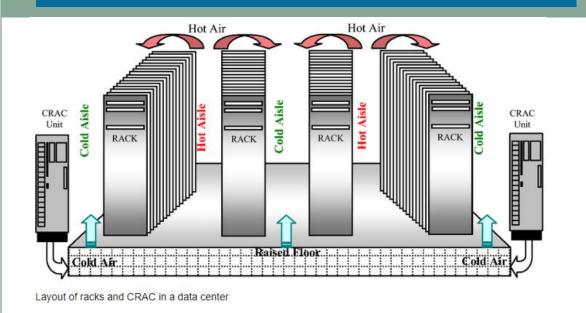


Data Center Thermal Layout

Existed Data Center

Existed CRAC system (Compute Room Air Conditioner)

Air-cooling
Fan + 3DVC → Hot air
Liquid cooling (Liquid to Air)
Cold Plate → Sidecar/RHDx → Hot air

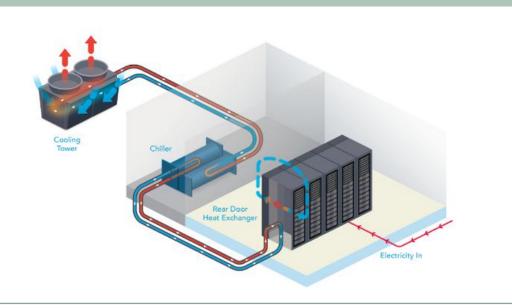


New Data Center

Extra chiller and/or cooling tower

Liquid cooling (Liquid to Liquid)
Cold Plate → Chiller → Hot water

Immersion cooling (Liquid to Liquid)
Boiler/Heatsink → Chiller → Hot liquid



Picture Source: Internet



Air Cooling vs. Direct Liquid Cooling

Air Cooling (Fan + 3DVC)

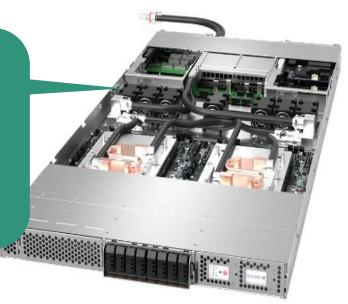
Refer to MGX platform SMCI model ARS-111GL-NHR

Direct Liquid Cooling (Fan + Cold Plate)

Refer to MGX platform SMCI model ARS-111GL-DNHR-LCC



For same chassis layout, fan is must needed key component for thermal solution



Picture Source: Internet

Air Cooling vs. Direct Liquid Cooling

Direct Liquid Cooling (Fan + Cold Plate)

Refer to MGX platform SMCI model GPU ARS-111GL-DNHR-LCC

Rear Door Heat Exchanger

Larger axial fan

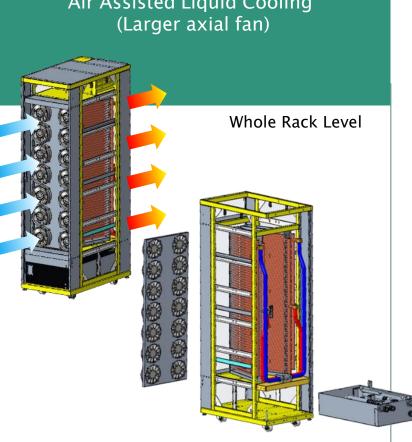


Whole Rack Level



Sidecar

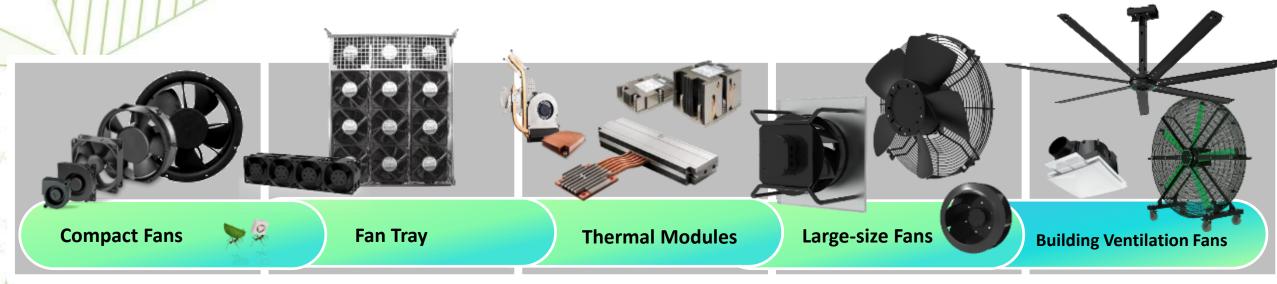
Air Assisted Liquid Cooling (Larger axial fan)



Picture Source: Internet



SUNON Total Thermal Solutions, One-stop Service













Sidecar CDU / Fan wall

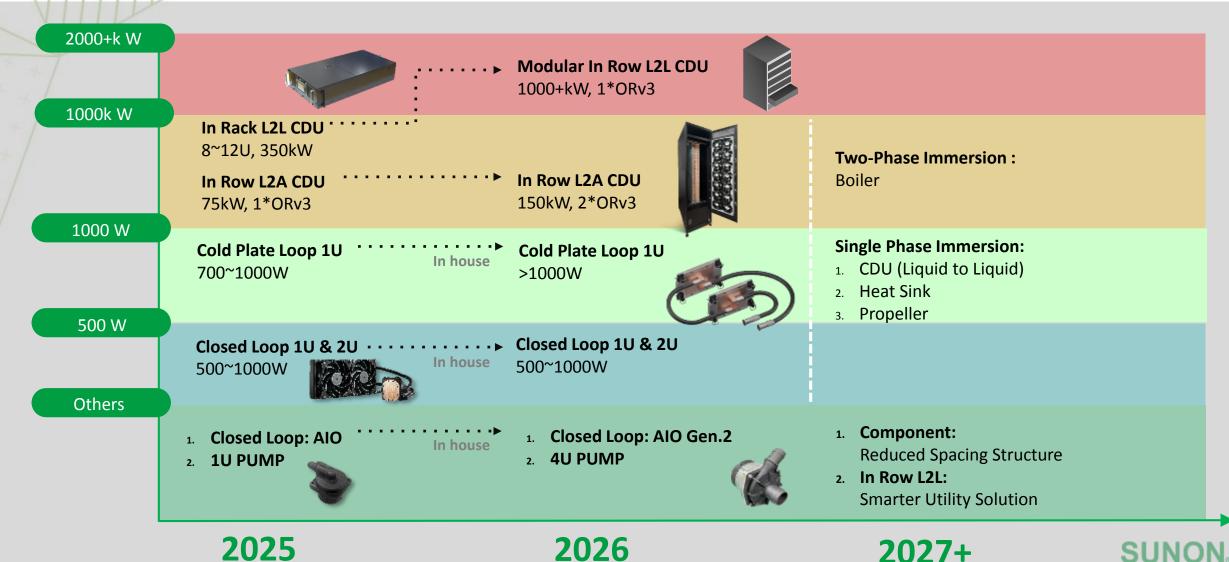
RPU

Two-phase Liquid Cooler

Water pump / Boiler

Liquid-cooled Modules

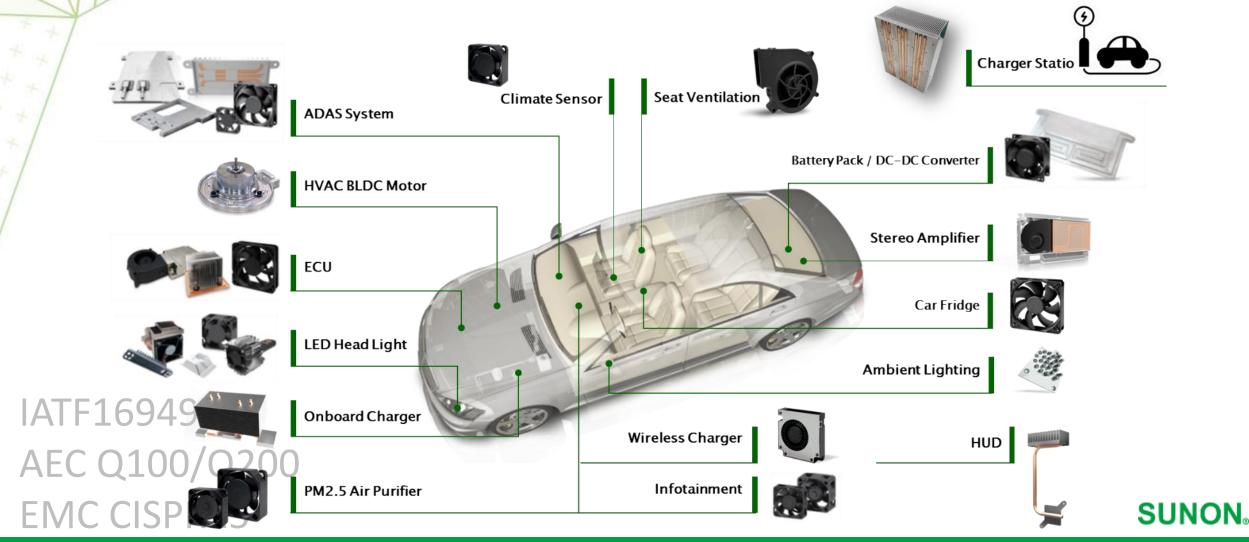
SUNON Liquid & Immersion Cooling Development



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Electric Vehicles / Auto Cooling Solution

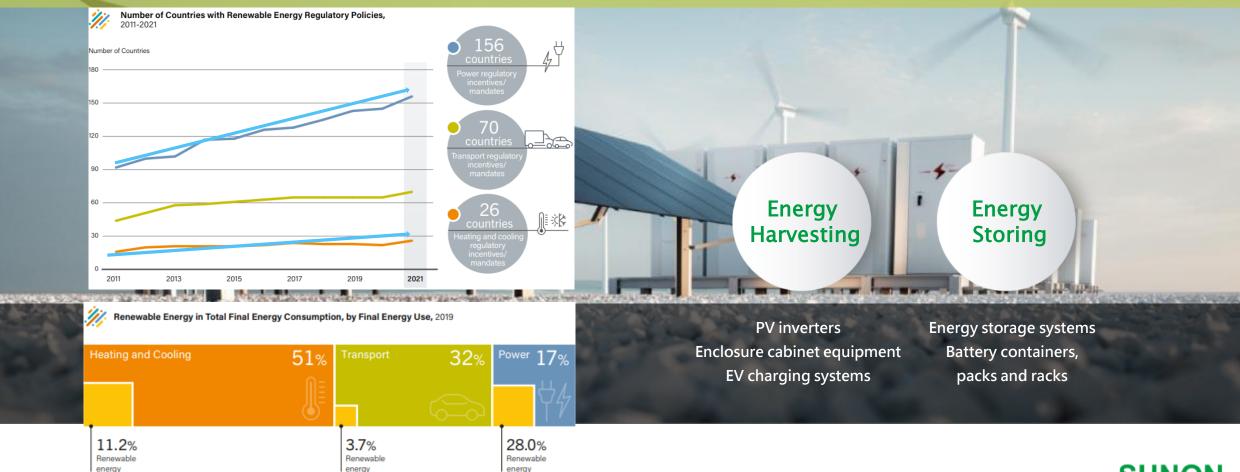
SUNON has more than 20 years of experience in cooling solutions for the automotive industry, and can provide various cooling fans, cooling modules and liquid cooling products that meet the quality standards of the automotive industry



Net zero emissions by 2050

Energy Transition Energy Transition Business Opportunities

Having an excellent thermal system is the key to stably maintain the operation of energy storage systems. Selecting an optimal thermal solution ensures the operation stability and high system effectiveness, and it also minimizes unnecessary maintenance costs.



Source: https://reurl.cc/NR85xk

Renewable Energy Cooling Solution

SUNON is an important partner of global high-quality energy system cooling solutions, providing a full range of cooling solutions.

PV Inverter Cooling

ESS Cooling





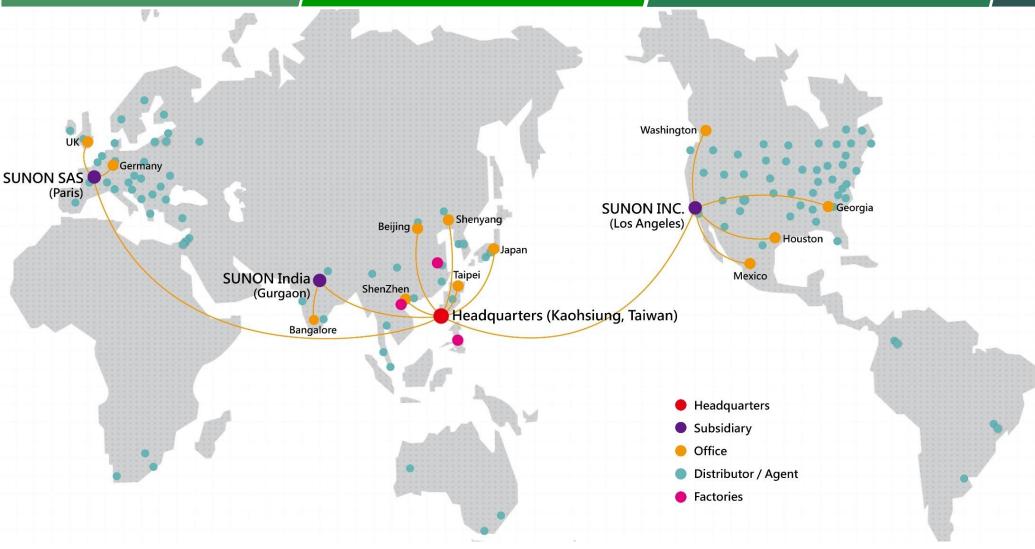












14Subsidiary & Office

122

Distributor & Agent

1000+

Sales & Service sites

Sufficient Capability

production bases
Cooling Fans
19 M pcs/month
Cooling Module
2.68 M pcs/month



Kaohsiung, Taiwan

1M pcs /month





Beihai, Guangxi (A Building ` B Building) Fans 7.2M pcs/month



Beihai, Guangxi (C Building) Fans 2.7M pcs/month



Kunshan, Jiangsu 5.3 M pcs/month(FAN) 2.5 M pcs/month(CM)



Bataan, Philippines 2.8 M pcs/month 180 K pcs/month(CM)



PerformanceHighlights

Society

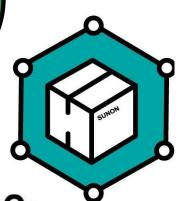
- Average employee training hours exceeded 48 hours per year.
- Production bases in Taiwan and China have both passed ISO 45001 certification.
- Provided care to 9,867 households in the "Support and Care Campaign" from 2018 to 2023.

Environment

- Implemented greenhouse gas inventory across the entire group, and passed third-party external verification.
- The solar power generation of the Guangxing plant has exceeded 680,000 kWh.
- Continuously passed IECQ QC 080000 certification each year.

Governance

- Net income reached 1.49 billion NTD, a 12% increase from 2023.
- The Company ranks among the top 3 leading brands in terms of market share.
- A sustainability development committee has been established.
- · Zero cases of corruption.



Products

- Saved 532 million kWh of electricity with product R&D. Reduced GHG emissions by 260,000 MTCO2e.
- 100.0% pass rate of hazardous substance inspection for three consecutive years from 2021 to 2023.
- Obtained 3,394 invention patents.



- 100% pass rates for new suppliers audits.
- 100% pass rates for annual supplier audits.
- Local procurement rates exceed 74%.



Net Zero Carbon Reduction

2030 \$\oint_{50}\times 50\times 2050 NET ZERO







Quarterly Revenue





UNIT: NTD (K)

Revenue Performance

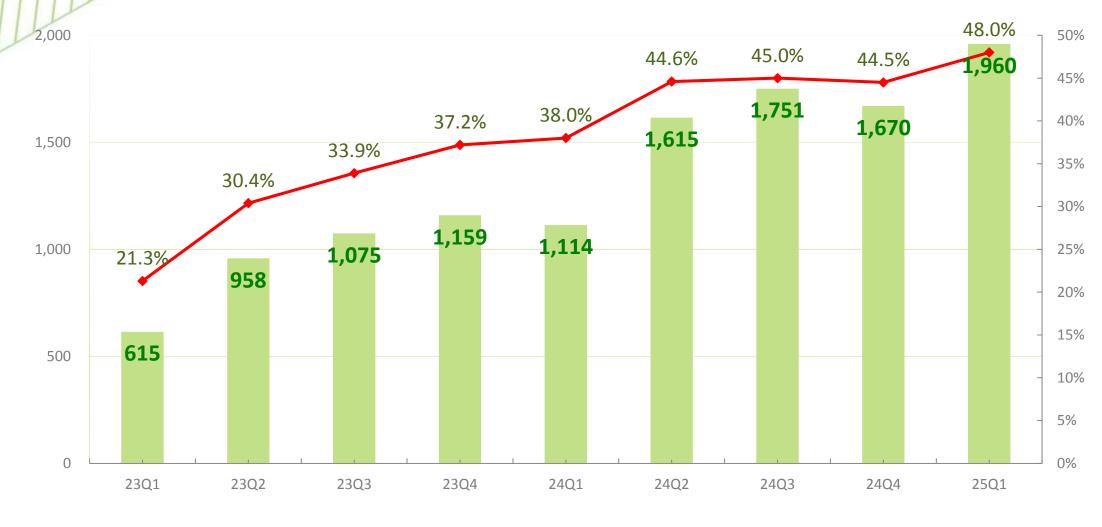






UNIT: NTD (M)

Quarterly Revenue in Server





→ % of Sales

Revenue

Quarterly Revenue in AI Server

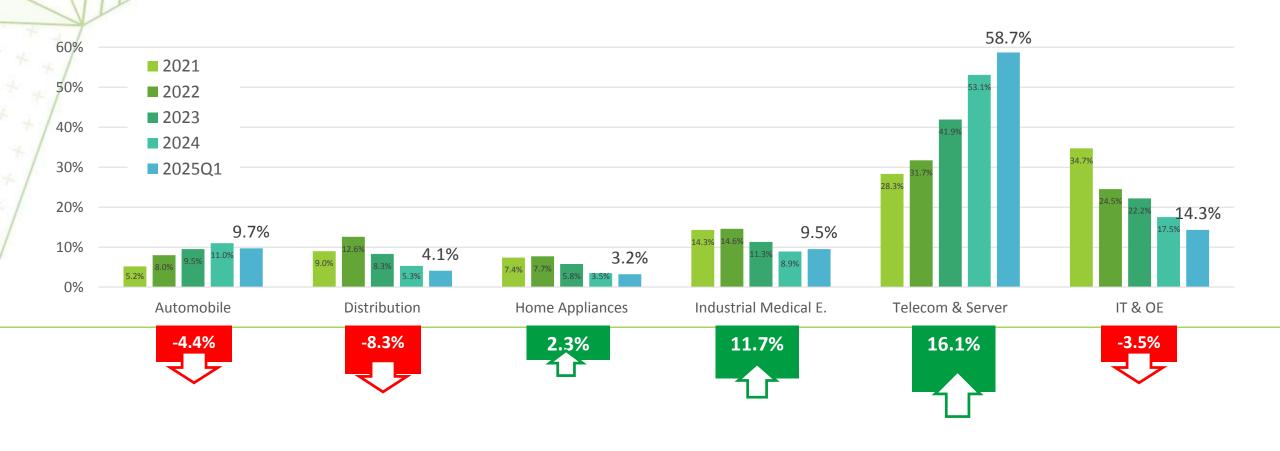




→ % of Sales

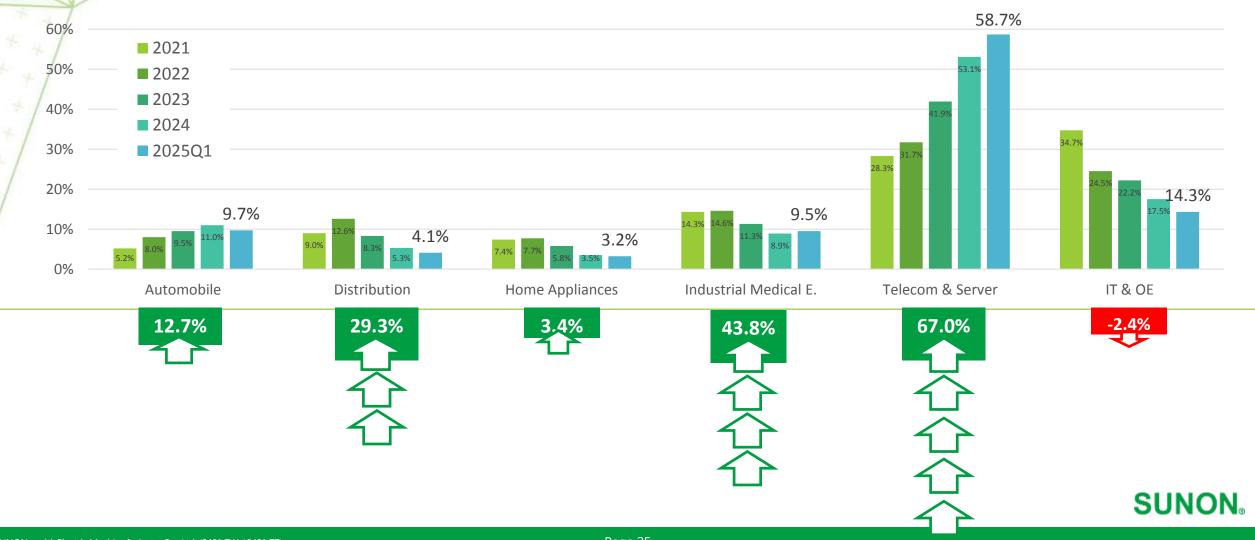
Revenue

Products Application & QoQ Growth





Products Application & YoY Growth



Profit Margin

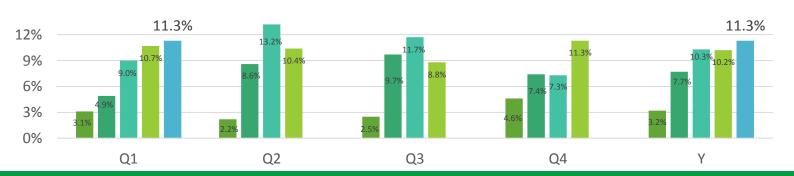




Operating Margin



Net Margin



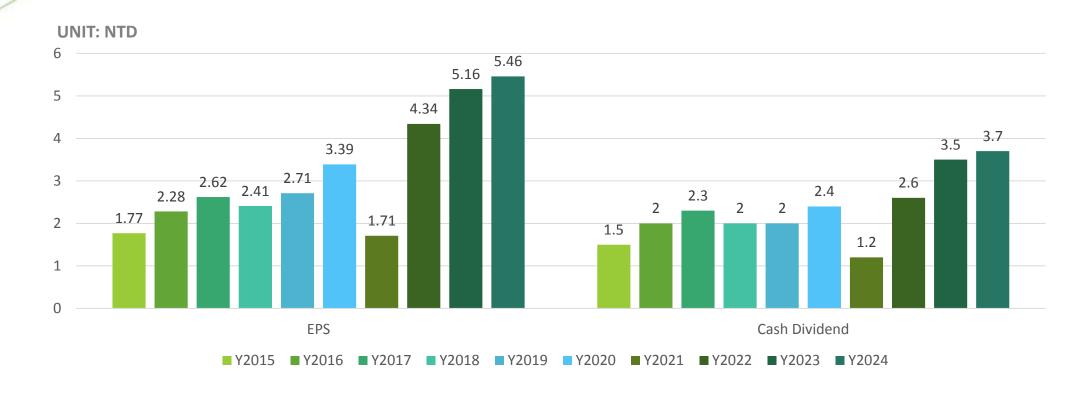


Quarterly Earning





Earning & Cash Dividend



	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	Y2021	Y2022	Y2023	Y2024
Payout Ratio	85%	88%	88%	83%	74%	68%	70%	60%	68%	68%



Appendix I

CONSOLIDATED BALANCE SHEETS								
	Change(%)							
NT\$ M	2024.3.31	2024.12.31	2025.3.31	VS.	VS.			
				2024.12.31	2024.3.31			
TOTAL ASSETS	13,292	14,998	15,830	5.5%	19.1%			
Cash	4,450	4,678	5,279	12.8%	18.6%			
A/R, N/R	3,221	4,103	4,445	8.3%	38.0%			
Inventories	2,121	2,181	2,179	-0.1%	2.7%			
PP&E	2,208	2,461	2,510	2.0%	13.7%			
TOTAL LIABILITIES	5,621	7,078	7,369	4.1%	31.1%			
Short-term loans	587	928	1,056	13.8%	79.9%			
A/P	2,889	3,435	3,642	6.0%	26.1%			
Long-term loans	168	478	432	-9.6%	157.1%			
TOTAL EQUITY	7,671	7,920	8,461	6.8%	10.3%			
Days sales outstanding	94	90	94					
Days sales of inventory	84	74	68					
Current Ratio	2.07	1.88	1.92					



Appendix II

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

NT\$ M	2024 Q1	2025 Q1	成長率 YOY(%) 2025Q1
OPERATING REVENUES	3,060	4,162	36.0%
GROSS PROFIT	799	1,218	52.4%
OPERATING EXPENSES	-524	-702	34.0%
INCOME FROM OPERATIONS	275	516	87.6%
NON-OPERATING INCOME AND EXPENSES	140	64	-54.3%
INCOME BEFORE INCOME TAX	415	580	39.8%
NET INCOME attribute to owners	326	472	44.8%
EPS (NT\$)	1.19	1.73	
Gross Margin	26.1%	29.3%	
Operating Margin	9.0%	12.4%	
Net Margin(*)	10.7%	11.3%	

(*)Net Margin=Net Income attribute to owners / Revenue





Thanks

for Your Attention!



