

Nuvoton Technology Corporation

3Q'25 Investor Conference

Nov 4, 2025



Agenda



Nuvoton Financial Results



Nuvoton 3Q'25 Business Update



Nuvoton Digital Power and Motor MCU



Q&A

Safe Harbor Notice

- ❖ We have made forward-looking statements in this presentation. Our forward-looking statements contain information regarding, among other things, our financial condition, future expansion plans and business strategies. We have based these forward-looking statements on our current expectations and projections about future events. Although we believe that these expectations and projects are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us.
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Nuvoton Financial Results



Statement of Comprehensive Income - Consolidated

Unit: NT\$ M	3Q'25		2Q'25		QoQ	
	Amount	%	Amount	%	Amount	%
Net Revenue	7,272	100	7,816	100	(544)	-
Gross Profit	2,597	35.7	2,728	34.9	(131)	0.8
Operating Income	(516)	(7)	(302)	(4)	(214)	(3)
Non-Operating Income	45	(1)	(343)	(4)	388	3
Income before Income Tax	(471)	(6)	(645)	(8)	174	2
Net Income (Loss)	(513)	(7)	(675)	(8)	162	1
EPS (NTD)	(1.22)		(1.61)		0.39	

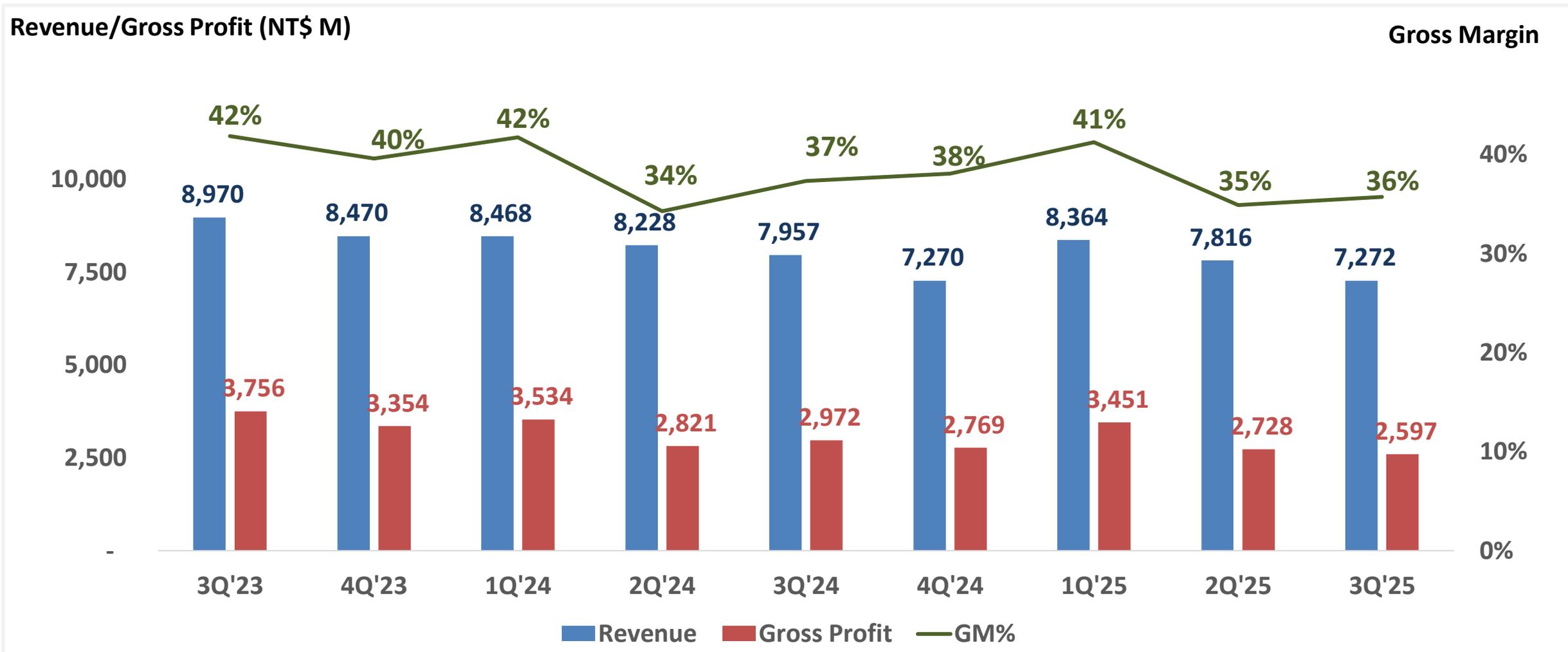
Balance Sheet - Consolidated

Unit: NT\$ M	Sep 30 '25		June 30 '25		QoQ	
	Amount	%	Amount	%	Amount	%
Cash & Cash Equivalents	9,584	29	9,685	29	(101)	-
Accounts Receivable	4,239	13	4,353	13	(114)	-
Other Receivable	508	1	565	2	(57)	(1)
Inventories	6,188	19	6,537	19	(349)	-
Long-Term Investments	2,723	8	2,636	7	87	1
Property, Plant, Equipment and R.O.U	7,702	23	7,766	24	(64)	(1)
Others	1,855	6	2,021	6	(166)	-
Total Assets	32,799	100	33,563	100	(764)	-
Current Liabilities	10,972	34	11,037	33	(65)	1
Non-Current Liabilities	8,010	24	8,462	25	(452)	(1)
Total Liabilities	18,982	58	19,499	58	(517)	-
Total Equity	13,817	42	14,064	42	(247)	-
Debt/Equity Ratio	1.4		1.4			

Statement of Cash Flows - Consolidated

	3Q'25	2Q'25	1Q'25
Unit: NT\$ M	Amount	Amount	Amount
Cash Flows from Operating Activities	58	202	(898)
Cash Flows from Investing Activities	(124)	(254)	(437)
Cash Flows from Financing Activities	(242)	217	5,679
Cash & Cash Equivalents	9,584	9,685	10,436

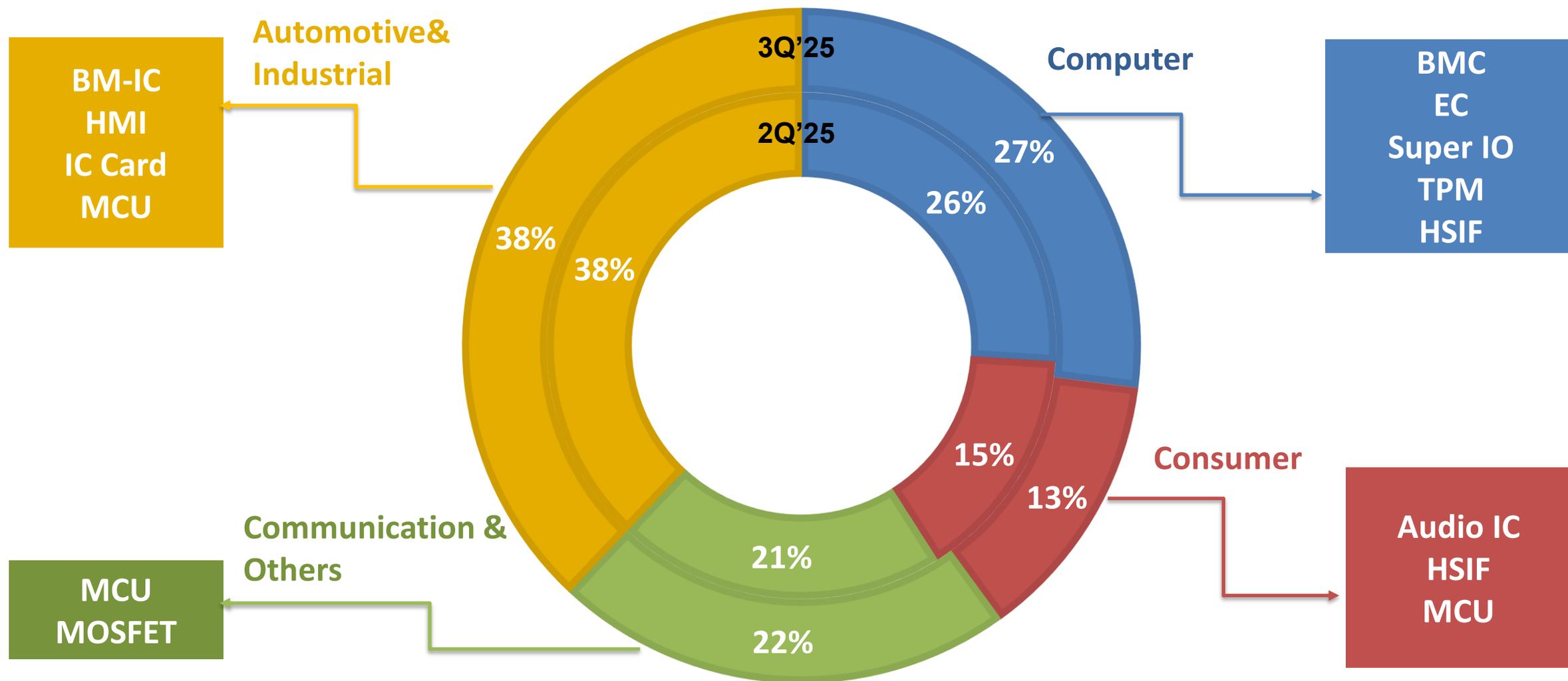
Revenue and GM Trend - Consolidated



Nuvoton 3Q'25 Business Update



3Q'25 Revenue by 4C Applications



Note: Foundry revenue was not included in the numbers .

Nuvoton 3Q'25 Business Update (1)

Automotive & Industrial

- ❖ Continuing our innovation in the security sector, we have commenced mass production of the next-generation NFC Tag IC, which is used in Japan's driver licenses
- ❖ Mass production of the digital power MCU for E-bike charging stations to a Japanese customer, further strengthening Nuvoton's presence in the e-mobility infrastructure market
- ❖ Launched a turnkey solution for the "Intelligent Cockpit," featuring automotive-qualified (AEC-Q100) components designed for Telematics, eCall and Dashboard applications to enhance in-cabin safety and user experience

Nuvoton 3Q'25 Business Update (2)

Computer

- ❖ The Arbel NPCM8mnx System-in-Package (SiP), which was launched last quarter, was also announced at the OCP Global Summit this quarter, demonstrating our fully integrated BMC subsystem supports next-generation AI servers and datacenter infrastructure
- ❖ The motor driver IC expanded into the server domain, with its 48V solution entering mass production for server fan applications through a leading power customer in Taiwan, targeting top global cloud service providers and server brands

Communication

- ❖ Our Bridge IC featuring strong ISP technology has achieved a design win with Chinese smart glasses customers

Nuvoton Digital Power and Motor MCU

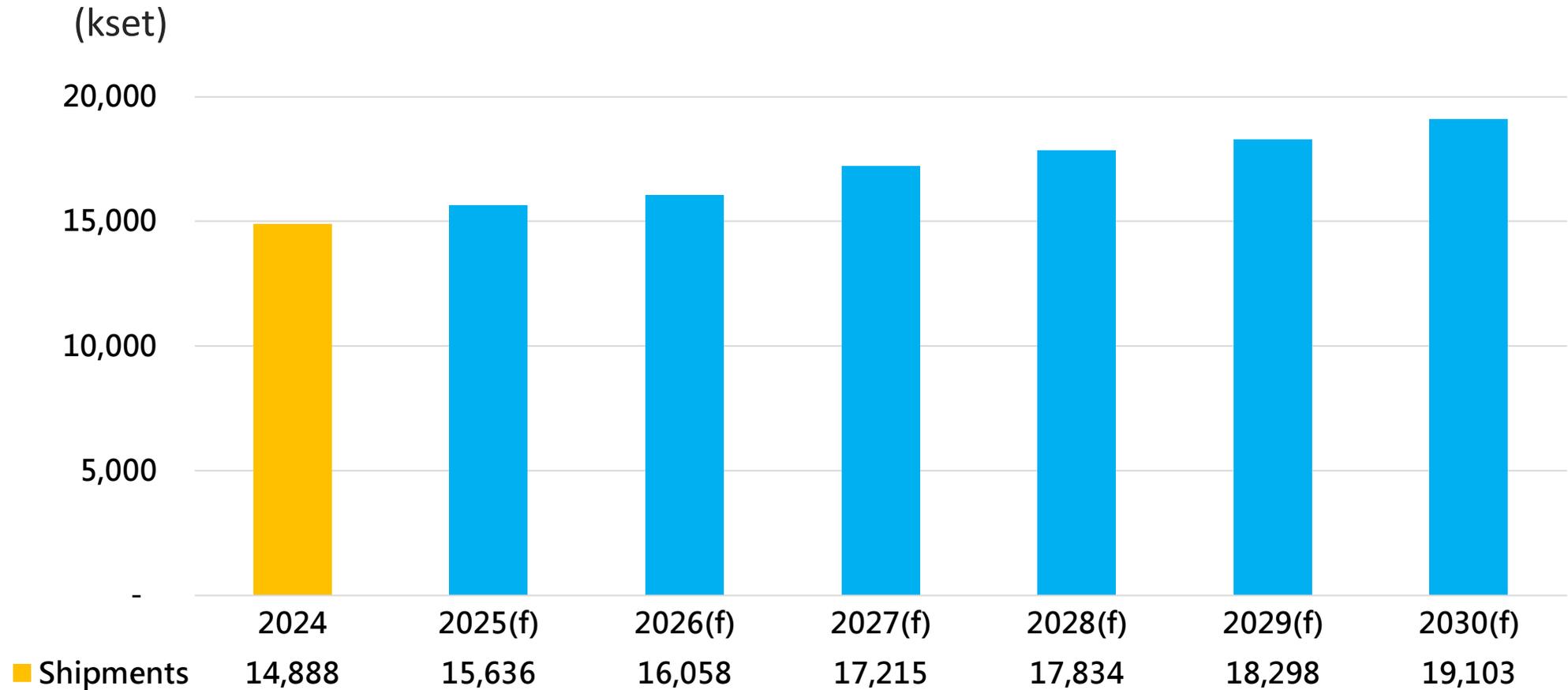


Sales Center
Johnson Chen



AI Drives the Growth of Server

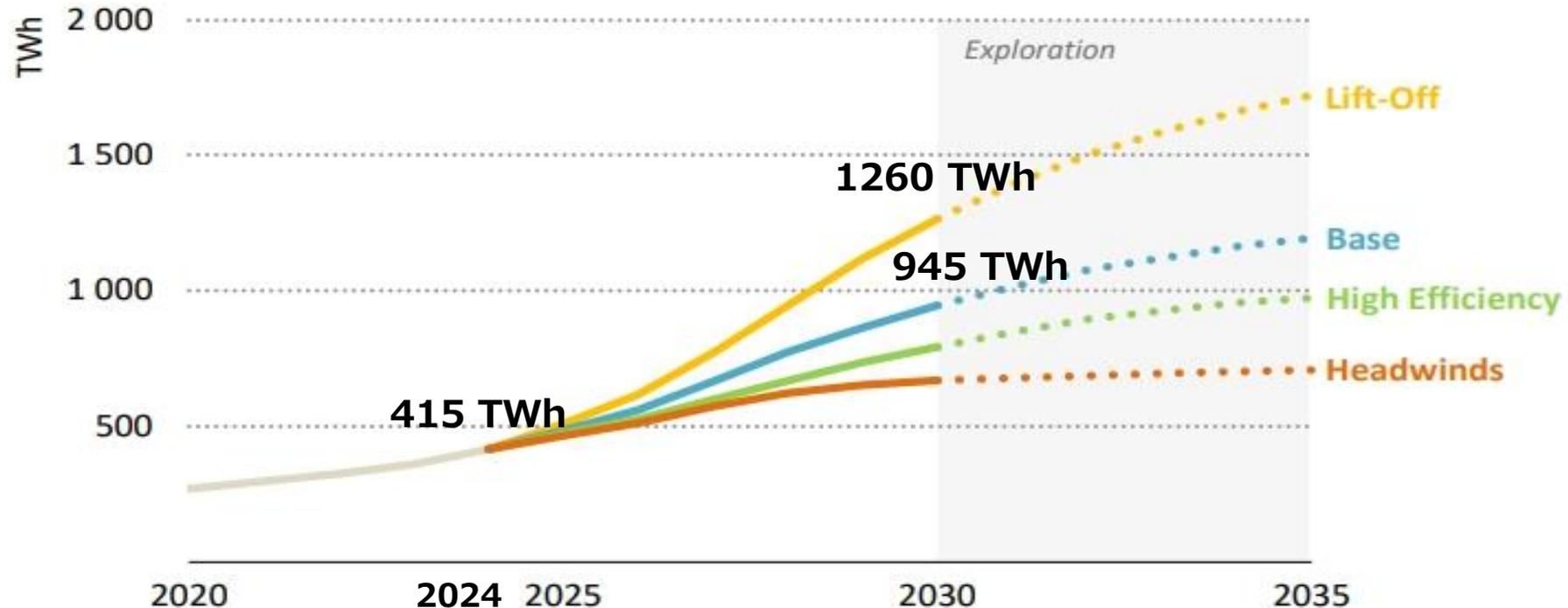
Worldwide Server Shipment & Forecast



資料來源：DIGITIMES · 2025/10

Increasing Needs of Power is a Problem

Data center electricity demand will increase **530 ~ 845 TWh** from 2024' to 2030'.
Or, **66~ 105 nuclear power plants**. Or, **USD 660 B ~ 1 T**.
=> **1% energy saving ~ USD 10B**



Global data center power consumption forecast by IEA (International Energy Agency)

Energy Saving & Comfort for a Better Work & Life

Power : Digital Power Control MCU

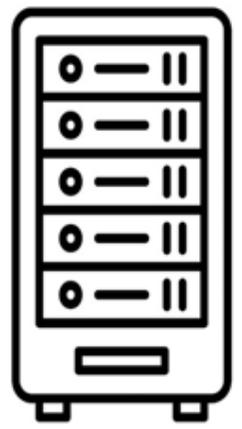


Server Power
(AC/DC)



Server Onboard
Power Supply
(DC/DC)

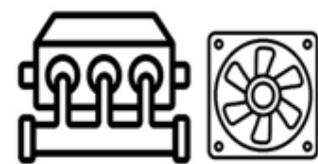
Server Rack



Cooling : Motor Controller



Air Cooling System
(Server FAN)



Liquid Cooling System
(Pump and Fan)

Inverter Controller



Focused Product Portfolio

Digital Power Control

Digital Power MCU

Server, Workstation



Server PSU
Workstation IBC
Workstation PSU

Motor Control

DC Fan MCU

Inverter MCU

Air Cooling, Liquid Cooling

Home appliance

Fan



Pump



Air con



Washer



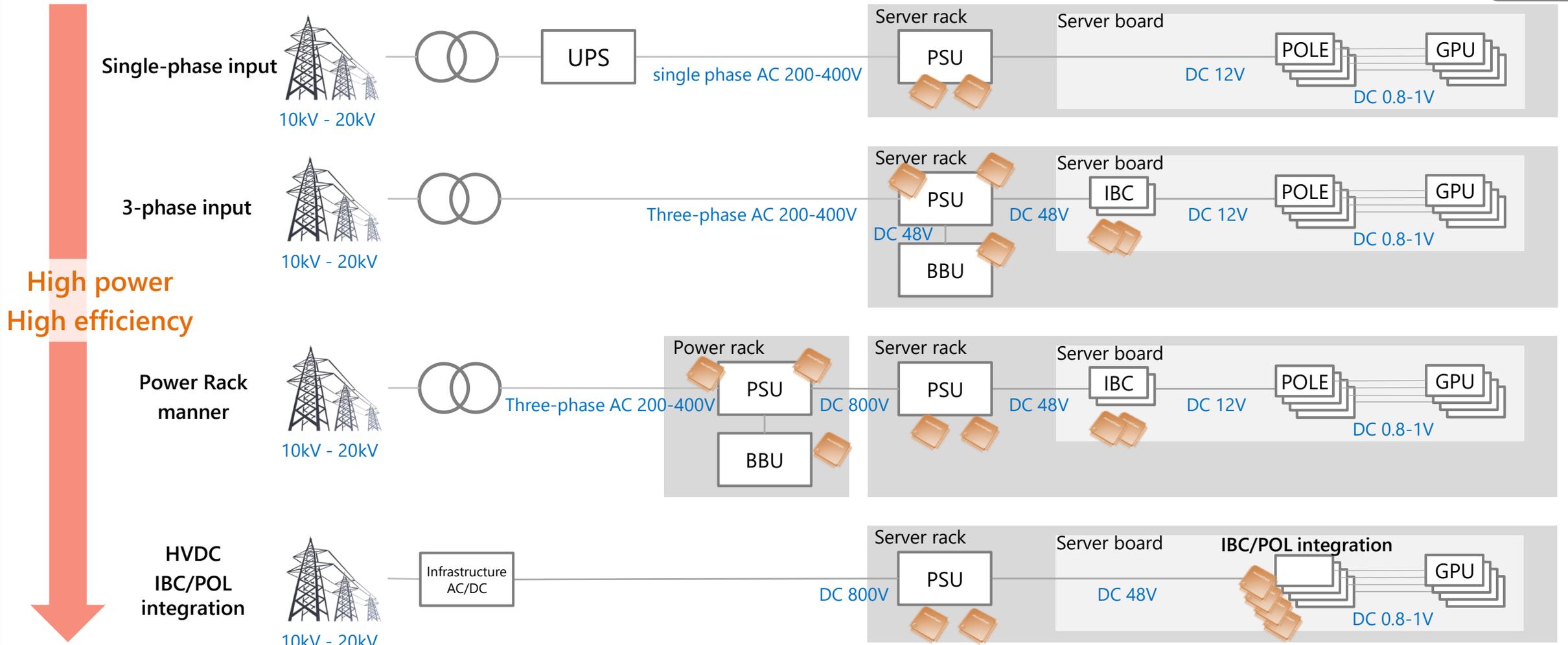
Fridge



Digital Power MCU



Evolving Power Architecture



UPS : Uninterruptible Power Supply, PSU : Power Supply Unit
BBU : Battery Backup Unit, IBC : Intermediate Bus Converter, POL : Point Of Load, HVDC : High Voltage DC

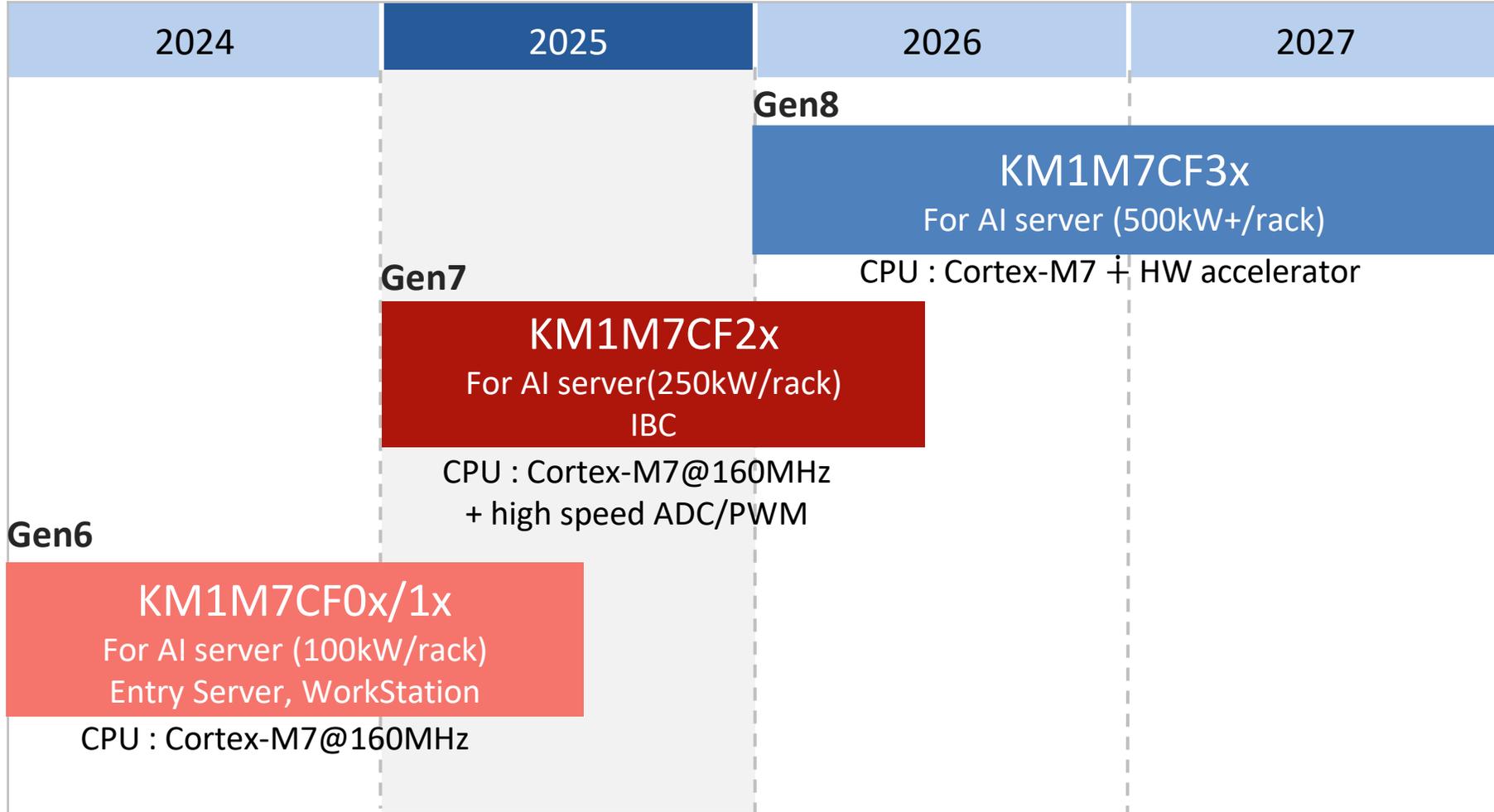


Trend and Needs

		Single-phase power supply			Three-phase power supply			HVDC
		2024	2025	2026	2027	2028	2029	2030
AI Server	Output power/Rack	GB200: 66~132kw	GB300 120~150kw	Vera Rubin:300kw Rubin Ultra 600kw			1MW	
	PSU	8kW	12kW	18kW			25kW	
	Output power/Unit	Totem pole PFC			Vienna Rectifier			
	Topology	100unit	250unit	500unit			1kUnit	
	IBC Unit/Rack	104W	138W/in ³	166W/in ³			200W/in ³	
	Power density	Single core MCU @ 100~200MHz			MCU(Dual) @100~400MHz or MCU + Accelerator			
	MCU	Processing Power						

Digital Power MCU Roadmap

Increasing power control efficiency to meet the future trend of AI servers



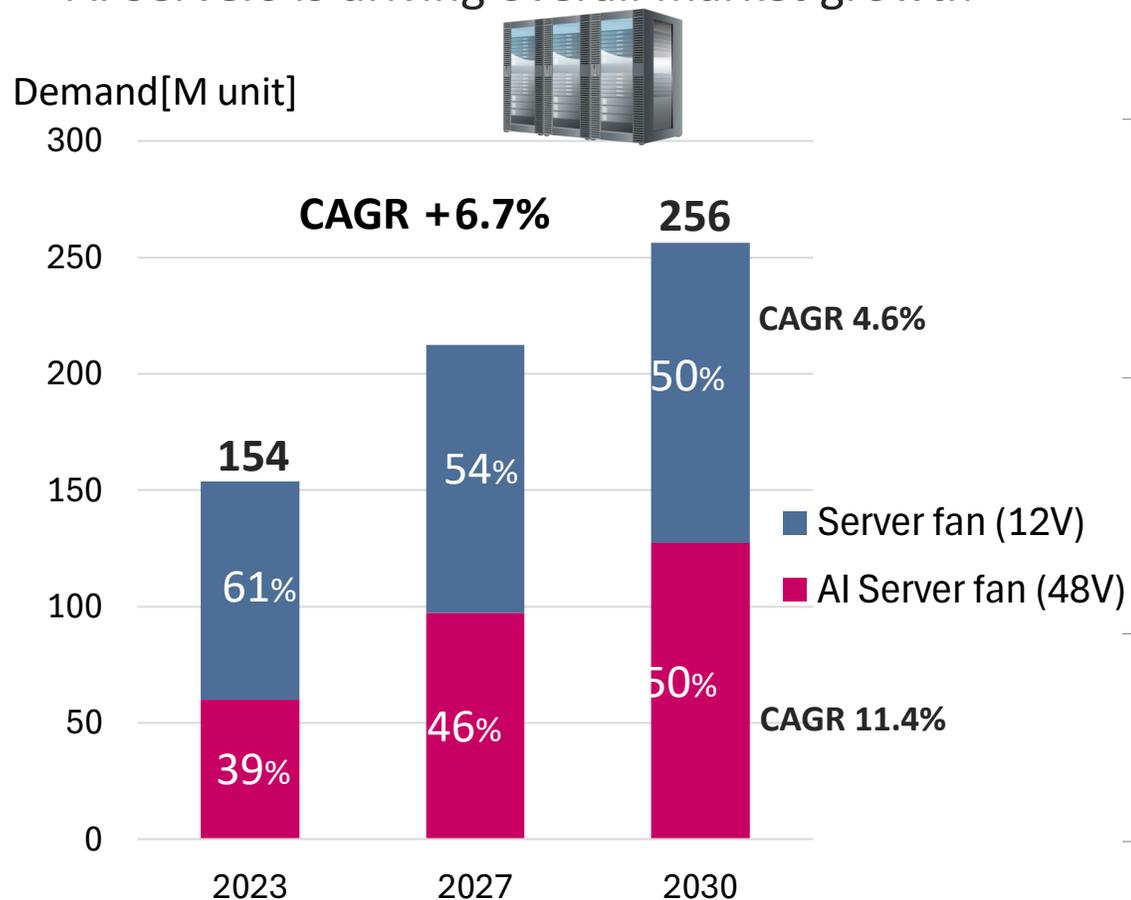
DC Fan MCU



Cooling Fan Market trend

Server Fan Market trend

AI Servers is driving overall market growth



Trend and Needs

High airflow fans are required to enhance GPU cooling performance

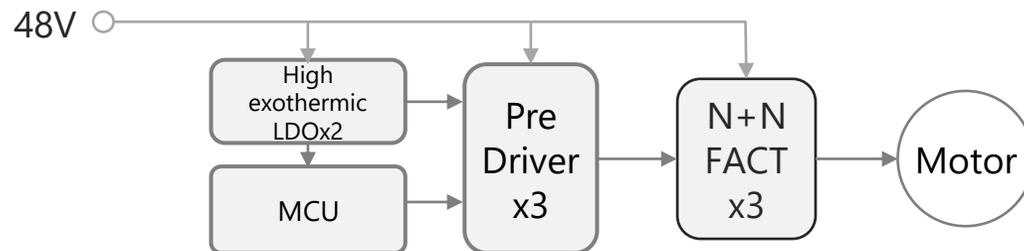
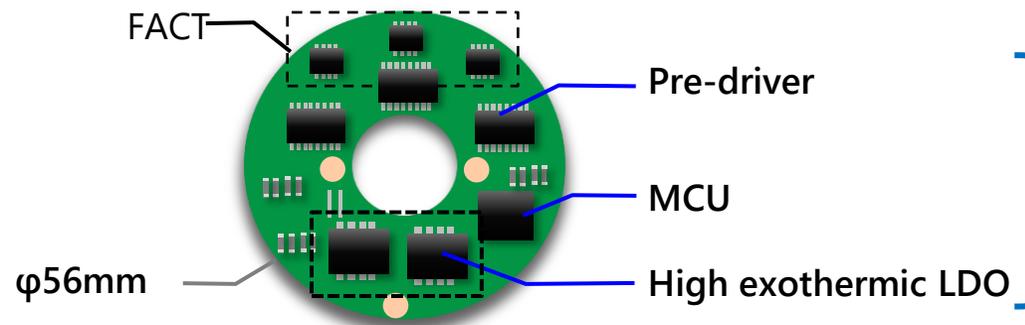
		2024	2025	2026	2027	2028	2029	2030	
Server	Output power/Rack	100k	250kW	500kW		1MW			
	Cooling system	Air cooling		Rear door (Liquid cooling)	Sidecar (Liquid cooling)	DLC (Direct Liquid cooling with cold plate)			
Fan	Airflow	10CFM		40CFM		80CFM			
	Power supply	12V			48V				
	Fan size	40/80mm			>172mm				
	Fan output	<200W			>200W				
	Rotation speed	<30krpm			60krpm				
IC	High voltage	12V	48V						
	Current capability	200mA			1A				
	Control	Rectangular			FOC				
	Package	4 x 4mm							

Industry First 1U Server-Compatible 48V Fan Controller

1U: A unit that indicates the height of a rack-mounted server, 1U approx. 44.55mm

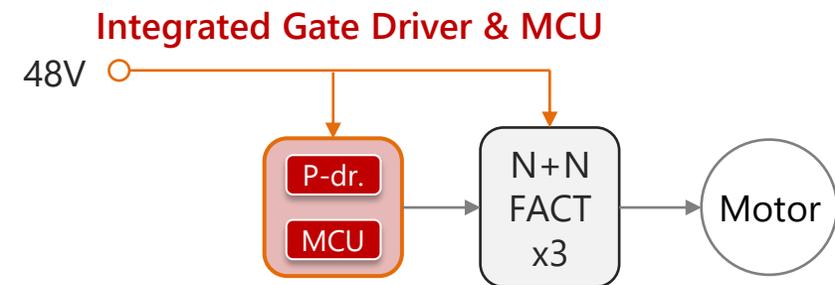
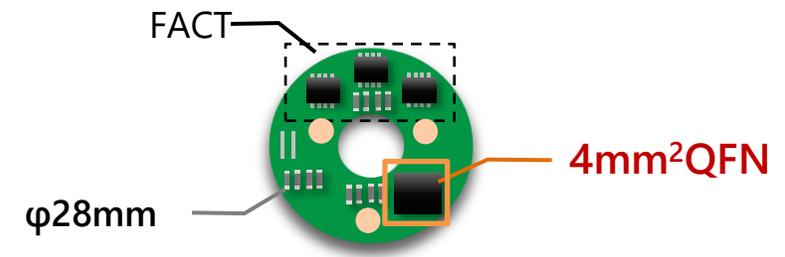
48V Fan Existing Configurations

■ PCB over 2U

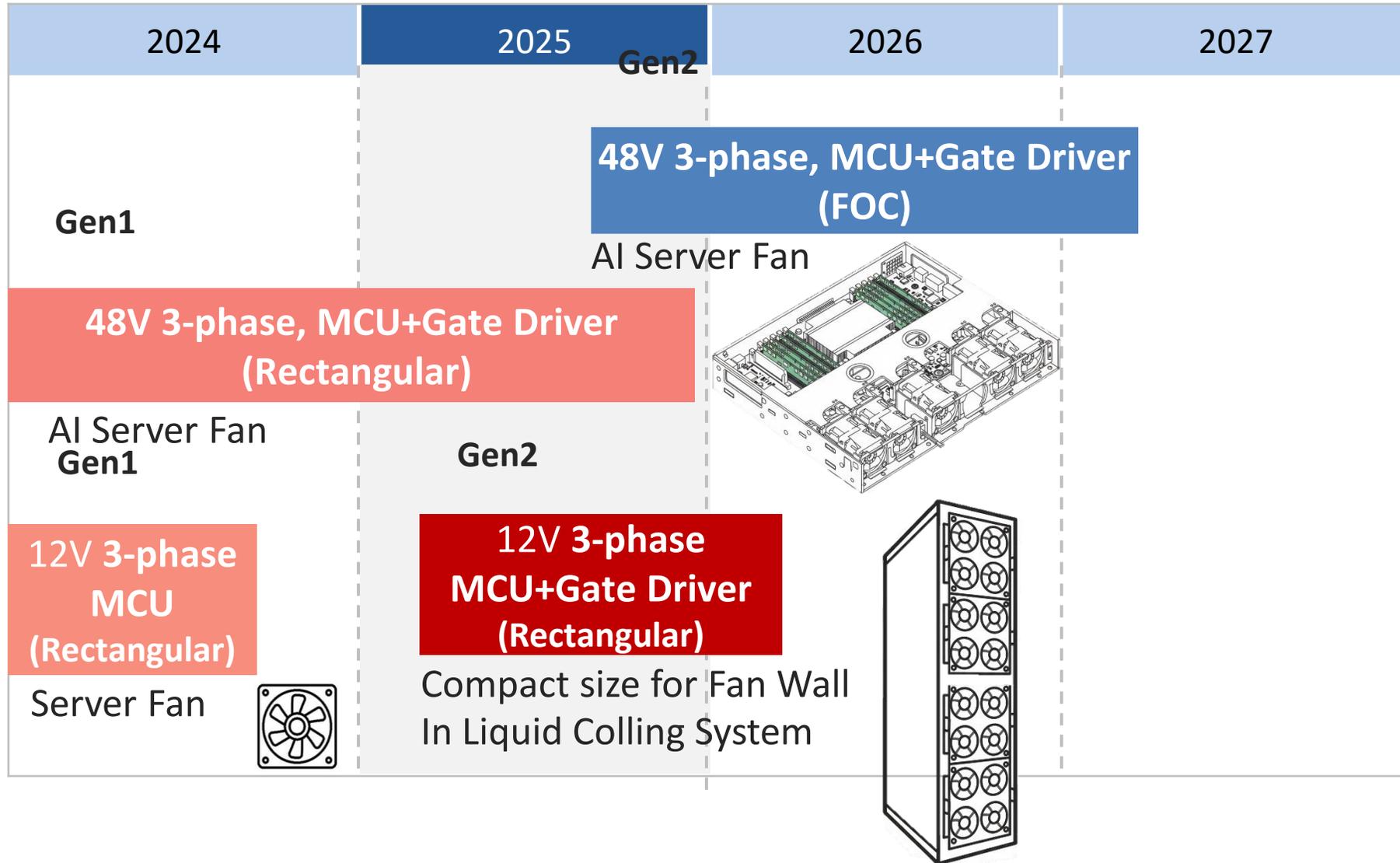


Nuvoton 48V Motor Controller

■ 1U PCB



DC Fan MCU Roadmap



Inverter MCU for Home Appliance

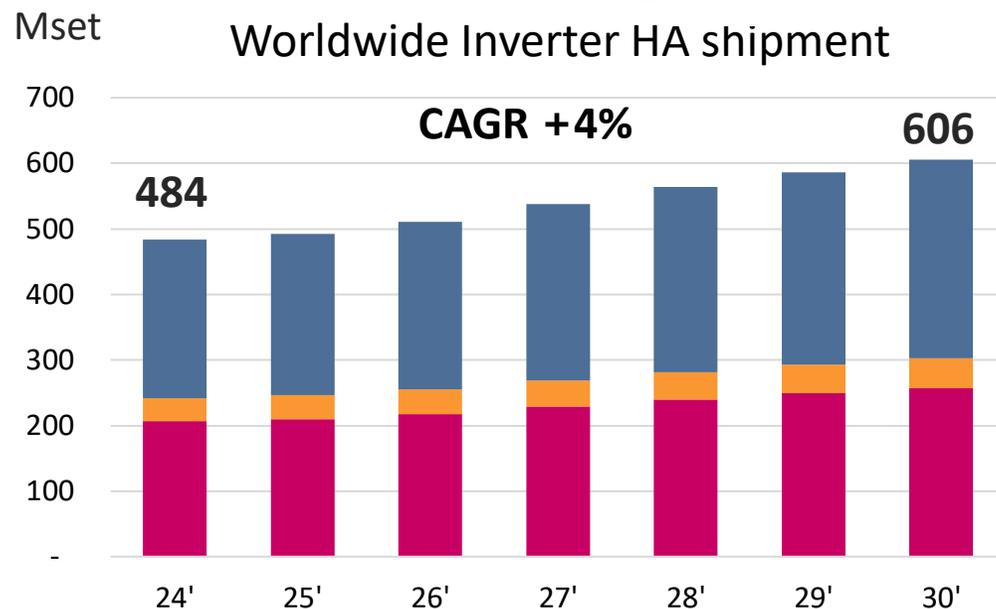


Home Appliance Market trend

HA Market trend

The sales growing steadily

- Air conditioner
- Washer
- Fridge



Source: Fuji Keizai

Trend and Needs

Innovation is essential to maintain competitiveness



Comfort

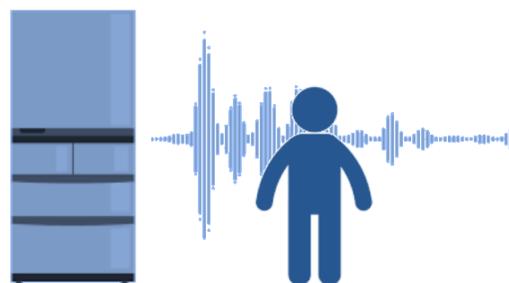


Energy Efficiency

Address the Needs of End Users

Market
requirement

Comfort



Energy Efficiency



Our Solution

Suppress Vibration and Noise
by **AI model** embedded.

Reduce power consumption
during low load
by **high efficiency control**.

Vibration and Noise Suppression by AI

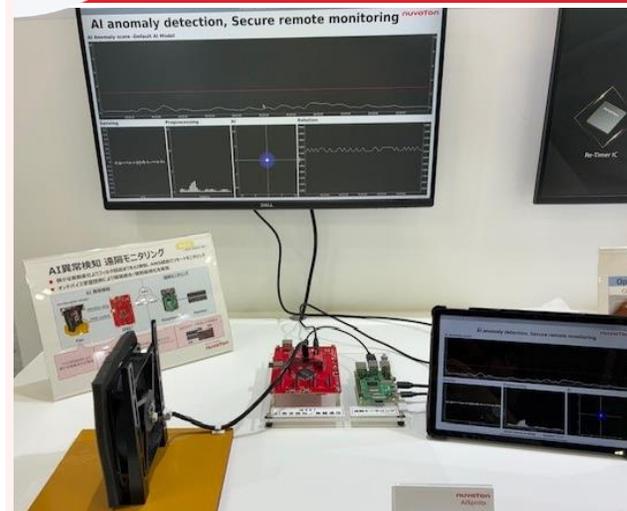
AI technology
embedded MCU



Nuvoton's case examples



Premonition detection
vibration by clogging.



Operation appliance
by voice and motion.



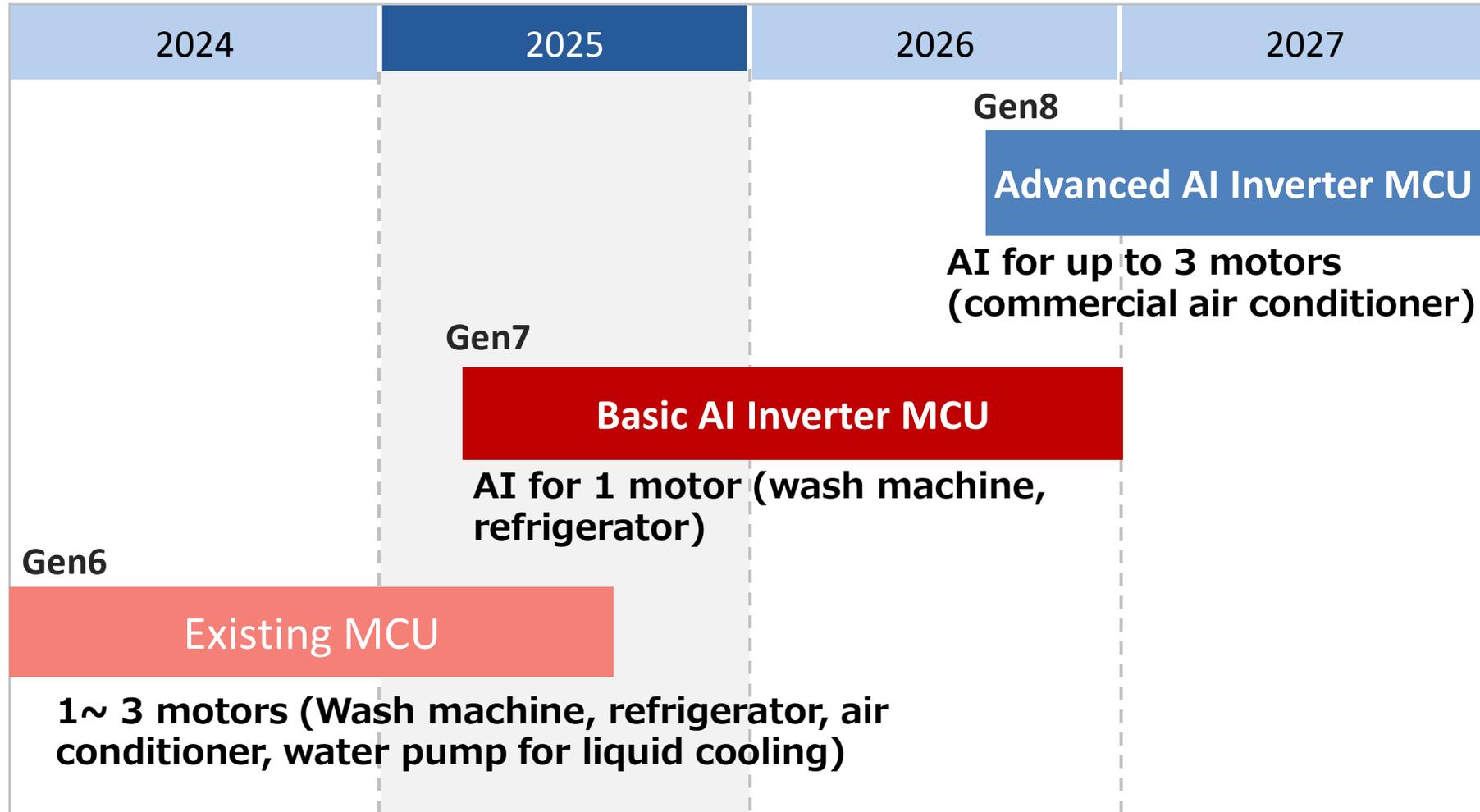
Data Collection

Data Analysis
(Feature Extraction)

AI Model
development

MCU
implementation

Inverter MCU Roadmap



Questions & Answers