

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 projections are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us.
- We undertake no obligation to publicly update or revise any forward-looking statements whether as a result of new information,
 future events or otherwise. In light of these risks, uncertainties and assumptions, the forward-looking events discussed in this
 conference might not occur and our actual results could differ materially from those anticipated in these forward-looking
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Hsiang-Yun Fan - EVP

02 Business Recap & Outlook

James Chen - President

03 Excellence & Forward

Jason Lin - VP

04 Q & A





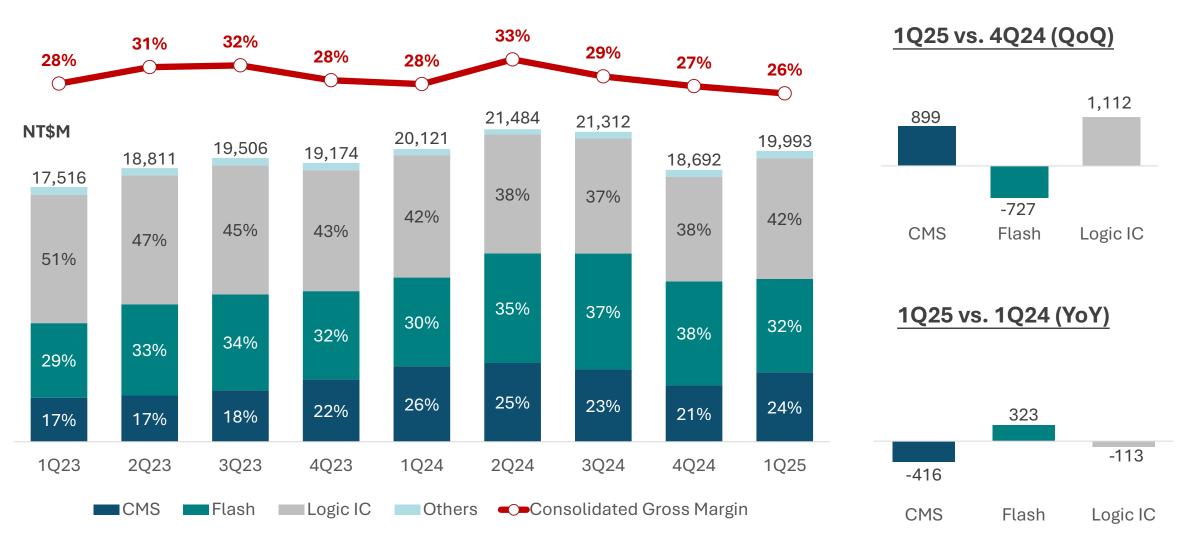
Statement of Comprehensive Income - Consolidated

(In NT\$ millions unless otherwise noted)	1Q25	4Q24	QoQ	1Q24	YoY
Net Sales	19,993	18,692	+7.0%	20,121	-0.6%
Gross Profit	5,122	5,081	+0.8%	5,562	-7.9%
Gross Margin	25.6%	27.2%	-2 ppts	27.6%	-2 ppts
Operating Expenses	6,087	5,822	+4.6%	5,748	+5.9%
Operating Profit (Loss)	(965)	(741)	-224	(187)	-778
Operating Margin	-4.8%	-4.0%	-1 ppts	-0.9%	-4 ppts
Non-Operating Items	(180)	(40)	-140	(240)	+60
Income Tax Expense (Benefit)	(159)	(102)	-57	(162)	+3
Net Income (Loss)	(987)	(678)	-309	(265)	-722
Net Profit Margin	-4.9%	-3.6%	-1 ppts	-1.3%	-4 ppts
Net Income to Shareholders of the Parent Company	(1,091)	(648)	-443	(464)	-627
Earning Per Share (NT Dollar)	NT\$-0.24	NT\$-0.15		NT\$-0.11	
EBITDA	2,435	2,719		2,911	
Average Exchange RateUSD/NTD	32.82	32.19		31.32	



Revenue by Products - Consolidated

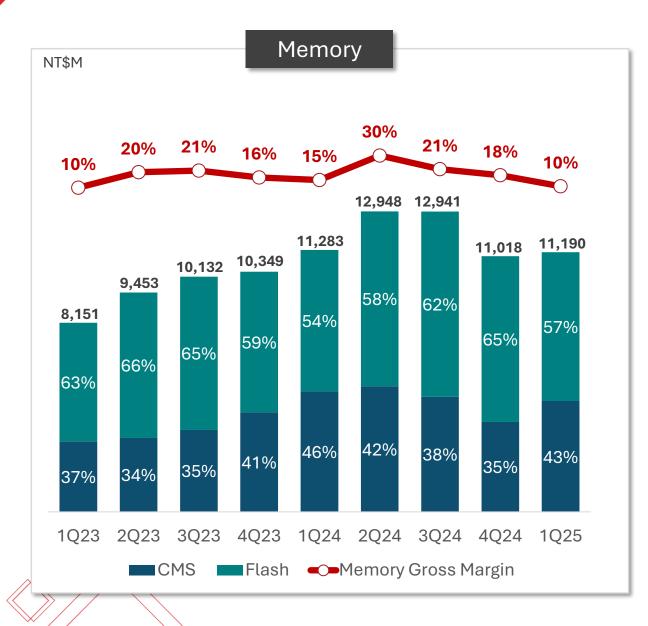
winbond

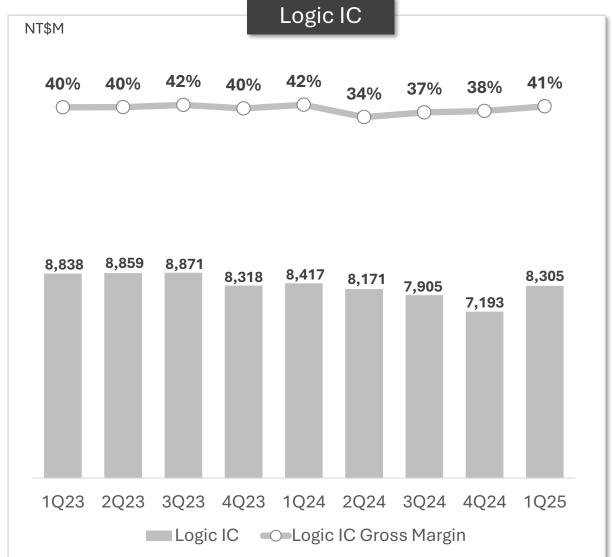


^{*}CMS stands for Customized Memory Solution, formerly known as DRAM business

^{**}Others revenue represents software service revenue, mainly from AMTC and METC. It accounts for around 1 to 3% of total revenue

Revenue and Gross Margin by Products





Memory Business Quarterly Highlights

(In NT\$ millions unless otherwise noted)	1Q25	4Q24	QoQ	1Q24	YoY
Net Sales	11,190	11,018	+1.6%	11,283	-0.8%
Gross Profit	1,172	1,934	-39.4%	1,637	-28.4%
Gross Margin	10.5%	17.6%	-7 ppts	14.5%	-4 ppts
Operating Expenses	2,507	2,525	-0.7%	2,334	+7.4%
Operating Income (Loss)	(1,336)	(592)	-744	(697)	-639
Operating Margin	-11.9%	-5.4%	-7 ppts	-6.2%	-6 ppts
Capacity Utilization	70~80%	80~90%		70~80%	



Balance Sheet - Consolidated

winbond

(In NT\$ millions unless otherwise noted)	03.31.202	5	12.31.202	4	03.31.202	4
Cash & Cash Equivalents	18,378	10%	14,100	8%	13,710	7%
Accounts Receivable	11,855	7%	10,038	6%	11,387	6%
Inventories	23,540	13%	24,201	13%	22,392	12%
Long-term Investments	18,860	10%	19,152	11%	25,961	15%
Property, Plant, Equipment and ROU	101,793	56%	103,607	58%	104,522	56%
Total Assets	181,302	100%	177,784	100%	185,600	100%
Current Liabilities	44,859	25%	41,762	23%	32,558	18%
Long-term Interests-bearing Debts	28,012	15%	31,128	18%	36,362	20%
Bonds Payable	4,783	3%	-	-	9,984	5%
Total Liabilities	83,247	46%	78,625	44%	86,901	47%
Total Stockholders' Equity	98,056	54%	99,159	56%	98,699	53%
Book Value Per Share (NT Dollar)	20.10		20.37		21.76	
Debt / Equity Ratio	0.85		0.79		0.88	
Current Ratio	1.44		1.43		1.93	

Statement of Cash Flow - Consolidated

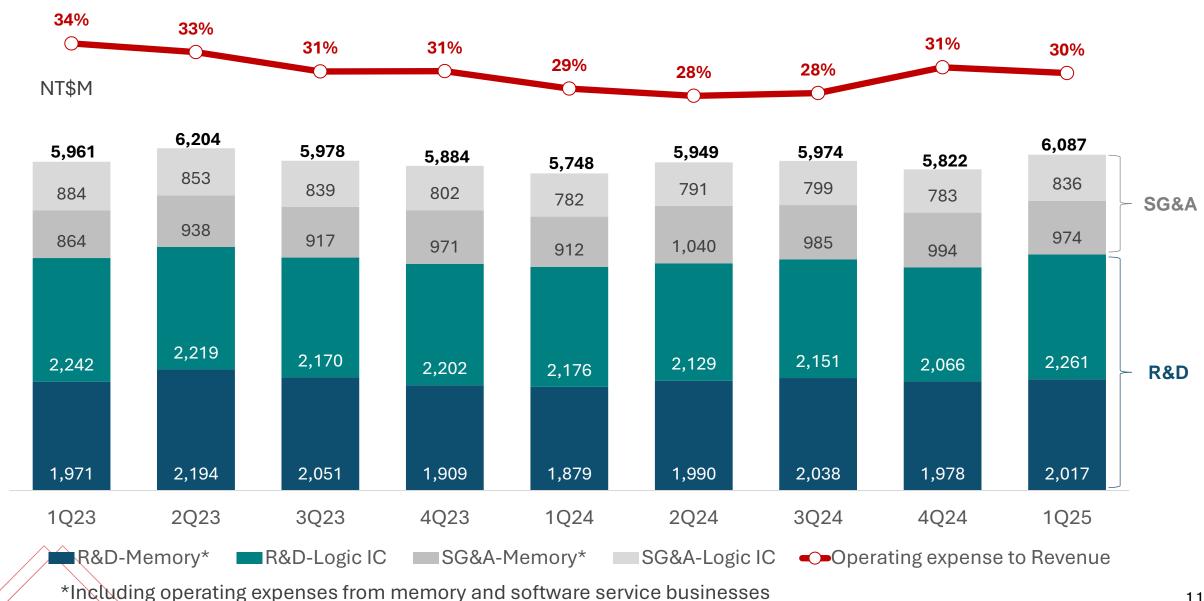
(In NT\$ millions unless otherwise noted)	1Q25	4Q24	1Q24
Cash Flow from Operating Activities	393	2,550	1,723
Depreciation & Amortization	3,255	3,203	3,052
Cash Flow from Investing Activities	(2,045)	(3,370)	(8,266)
CAPEX	(1,582)	(3,219)	(8,578)
Cash Flow from Financing Activities	5,457	(565)	3,245
Bank Loan	651	(432)	3,323
Net Change	4,278	(1,404)	(3,252)
Ending Balance	18,378	14,100	13,710
Free Cash Flow*	-1,189	-669	-6,855

^{*}Free cash flow = Cash from operating activities – CAPEX



Operating Expenses - Consolidated





Logic Business Performance - Nuvoton Income Statement

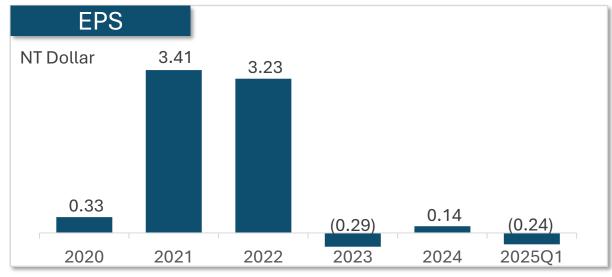
(In NT\$ millions unless otherwise noted)	1Q25	4Q24	QoQ	1Q24	YoY
Net Sales	8,364	7,270	+15.1%	8,468	-1.2%
Gross Profit	3,451	2,769	+24.6%	3,534	-2.3%
Gross Margin	41.3%	38.1%	+3 ppts	41.7%	0 ppts
Operating Expenses	3,177	2,989	+6.3%	3,078	+3.2%
Operating Margin	3.3%	-3.0%	+6 ppts	5.4%	-2 ppts
Non-Operating Items	59	201	-142	(51)	+110
Income Tax Expense (Benefit)	115	43	+72	(4)	+119
Net Income (Loss)	217	(62)	280	409	-192
Net Profit Margin	2.6%	-0.9%	+3 ppts	4.8%	-2 ppts
Earning Per Share (NT Dollar)	NT\$0.52	-NT\$0.15		NT\$0.97	

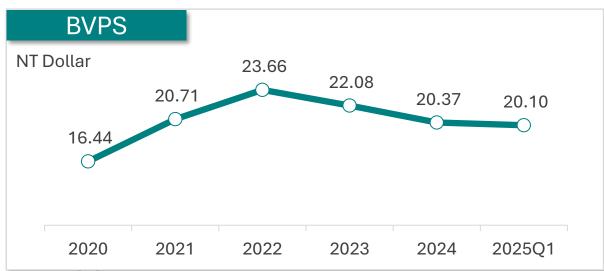


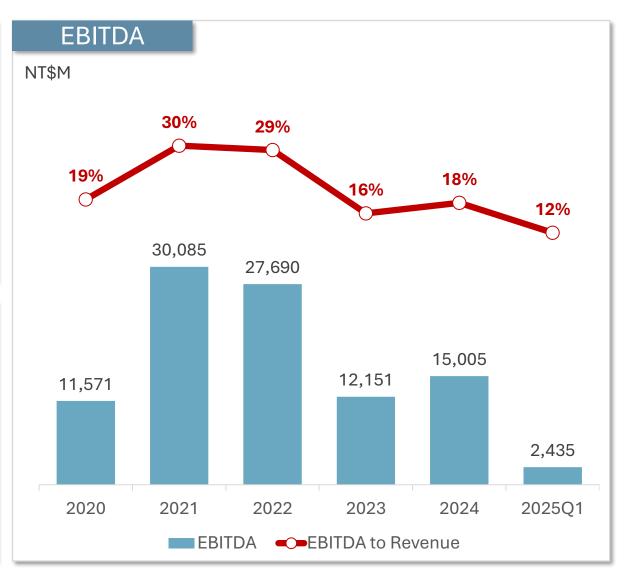
Logic Business Performance - Nuvoton Balance Sheets

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(In NT\$ millions unless otherwise noted)	03.31.202	.5	12.31.202	4	03.31.202	4
Cash & Cash Equivalents	10,436	28%	5,704	19%	6,433	20%
Accounts Receivable	4,983	14%	3,604	12%	4,698	15%
Inventories	7,281	20%	7,126	24%	7,060	22%
Long-term Investments	3,054	8%	3,353	11%	3,210	10%
Property, Plant, Equipment and ROU	8,441	23%	8,046	26%	7,966	25%
Total Assets	36,563	100%	30,296	100%	31,785	100%
Current Liabilities	11,889	33%	10,431	34%	9,480	30%
Non-Current Liabilities	8,775	24%	4,202	14%	6,448	20%
Total Liabilities	20,664	57%	14,633	48%	15,928	50%
Total Stockholders' Equity	15,899	43%	15,663	52 %	15,857	50%
Book Value Per Share (NT Dollar)	37.88		37.31		37.78	
Debt / Equity Ratio	1.30		0.93		1.00	
Current Ratio	2.00		1.69		2.03	

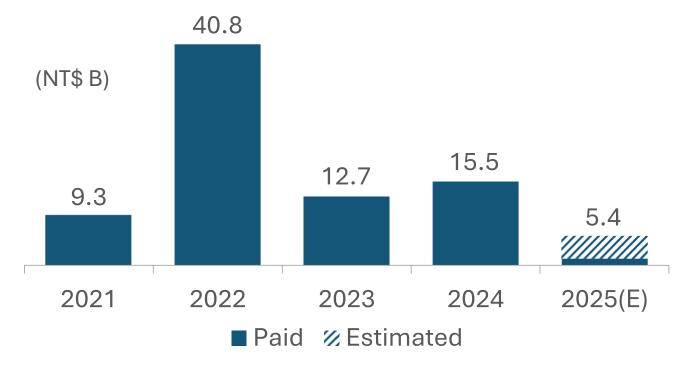
Corporate Value







Memory CAPEX



Cash Basis, as of May 7th, 2025

- 1Q25 CAPEX was NT\$1.3B
- 2025 CAPEX is estimated approx. NT\$5.4B, in which WFE CAPEX accounts for ~70%



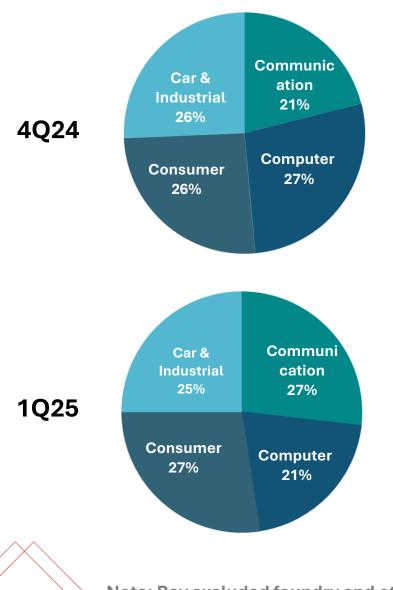


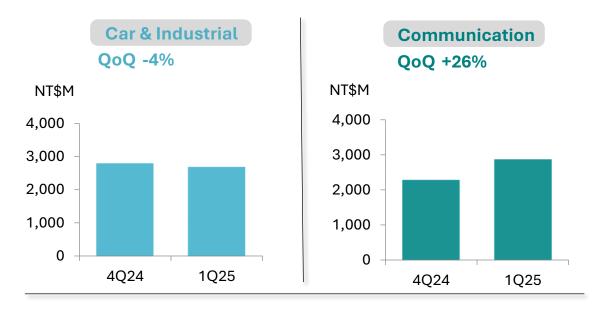
Memory Revenue Results

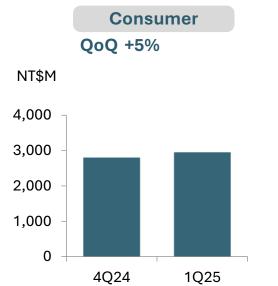
	QoQ	YoY
	1Q25 vs. 4Q24	1Q25 vs. 1Q24
	CMS	CMS
Revenue	+23%	-8%
Bit Shipment	Increased low-fifties%	Decreased low-teens%
Blended ASP	Decreased low-twenties%	Decreased low-single digit%
	Flash	Flash
Revenue	-10%	+5%
Bit Shipment	Flat	Increased mid-single digit%
Blended ASP	Decreased low-teens%	Decreased mid-single digit%
Exchange Rate	+1.9%	+4.8%

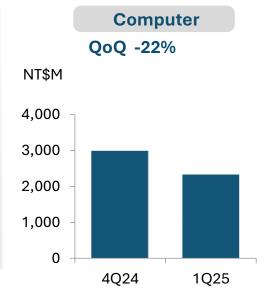


Memory Business Revenue Breakdown by Application



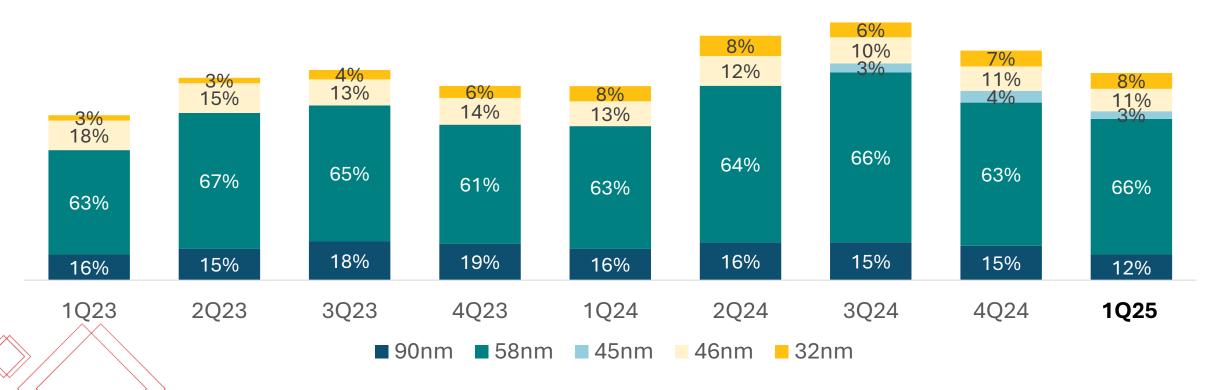






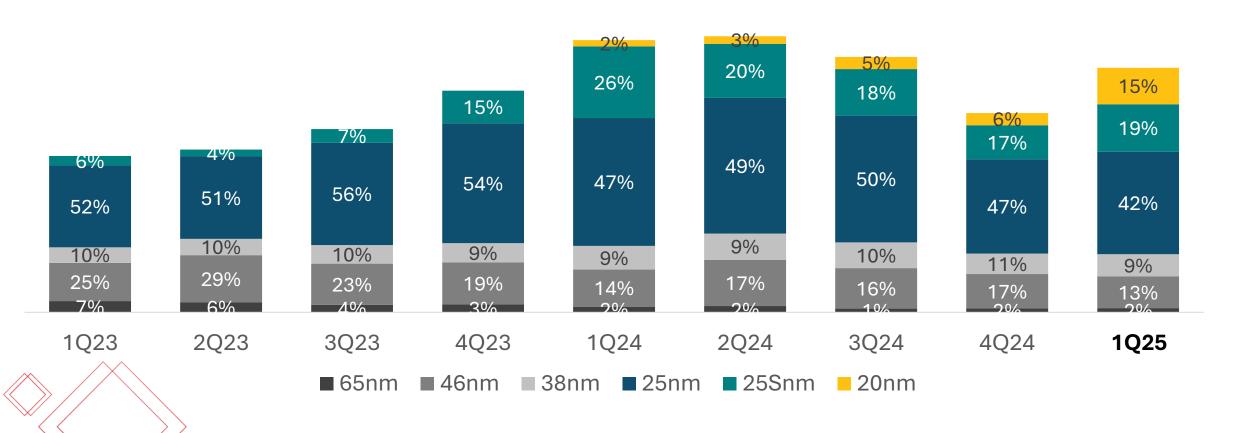
Flash Business

- ☐ Revenue in 1Q25 decreased by 10% QoQ but increased by 5% YoY
- 1Q25 NOR Flash bit shipment increased in the low-teens% range YoY
- 1Q25 SLC NAND bit shipment from density ≥4Gb increased more than doubled YoY
- Stably leading as WW No.1 NOR Flash supplier



CMS Business

- ☐ Revenue in 1Q25 increased by 23% QoQ but decreased by 8% YoY
- ☐ Bit shipment in 1Q25 decreased in the low-teens% range YoY
- □ Revenue contribution from 20nm surged in 1Q25, driven by DDR3 and DDR4 growth



Market and Business Outlook (1)

Code Storage Flash

- Demand for NOR recovers in 2Q25, with a balanced supply-demand throughout
 2025
- Supply for SLC NAND is anticipated to tighten in 2025 due to decreasing output from major suppliers
- Growing demand: Automotive, Wearable; Healthy demand: PC/NB, Smart Home

Customized Memory Solution

- Oversupply may improve with growing demand and potential rush orders in 2Q25
- The recovery in prices of DDR3 and DDR4 continues
- Positive demand for LPDDR4 across multiple applications: TV, Smart Home, Automotive and Drone, etc.



Market and Business Outlook (2)

Overall Market

- The ongoing volatility of the global economic environment brings uncertainty to the end markets
- Taiwanese manufacturers may benefit from the US-China tariff war in the short-term
- Long-term demand outlook for memory remains steady, driven by robust Al-driven industry transformation

Winbond Business

- Revenue contribution from 20nm CMS kept increasing, with the next-generation 16nm technologies on track
- 24nm NAND Flash process has entered mass production
- 4Gb and 8Gb LPDDR4 series will be the focus in 2025
- CUBE: continuously expand applications and provide solid solutions for customers
- Listed as a "Top 100 Global Innovators" by Clarivate for three consecutive years



Winbond Code Storage Flash Product and Applications

N	0	R	F	la	S	h
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NAND Flash

Secure Flash

512Kb~2Gb

512Mb~8Gb

4Mb~1Gb

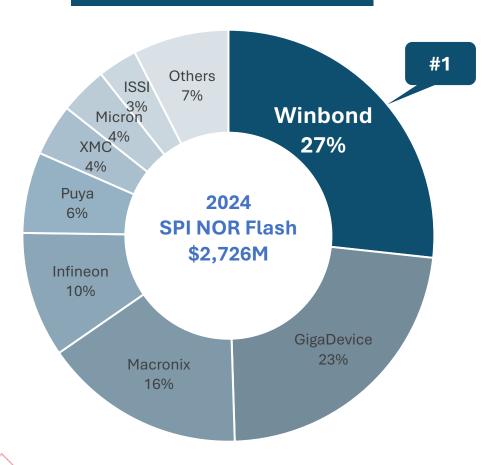
Product Application	QSPI NOR - 1.2/1.8/3V Octal NOR - 1.8V	QSPI NAND - 1.8/3V Octal NAND - 1.8V ONFI NAND - 1.8/3V MCP	QSPI Secure Flash - 1.8/3V Octal PQC Secure Flash - 1.8V
Computing	AI Server PC, Notebook HDD, Peripherals	HDD	Server Supply Chain Protection SmartNIC
Consumer	TWS, GPS, Wearable Gaming AMOLED, TV	Healthcare with AI Enabled AR/VR Smart Speaker	"RED" and "CRA" Compliant Products
Communication	IoT Connectivity 5G base station Satellite communication	WiFi6/7,M2M Module, FWA, Switch GPON/xDSL IPCam	iSIM on mobile phone (EAL5+) Enterprise Switch
Automotive	Cluster, eCockpit ADAS, DMS Camera, Ladar/Lidar	ADAS, DMS	Autonomous Driving
Industrial Control	Medical Utility Meters, Surveillance IPC, PLC, Factory Automation	Surveillance Camera Factory Automation	IPC Industrial Gateway Medical

2024 SPI NOR and SLC NAND Market Share



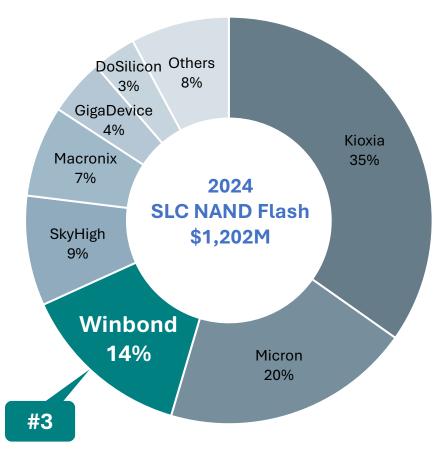
SPI NOR Flash

(Revenue \$USD)



SLC NAND Flash

(Revenue \$USD)



Source: Omdia, Mobile and Embedded Memory Market Tracker – 4Q24 Database, March 2025

Source: Individual company, TrendForce, Omdia, Winbond

Cybersecurity Market Segments

- 1. Infrastructure Protection
- 2. Network Security
- 3. Endpoint Security
- 4. Data Security
- 5. Application Security
- 6. Cloud Security
- 7. Other Solutions

Hardware Cybersecurity and Code/Data Storage Protection Required- Focus of Winbond

From various reports, the market size by software and service of the cybersecurity industry is > \$250 billion with a CAGR of > 12% in the coming years.



Key Drivers of CyberSecurity Market

Elevated cybersecurity threats

A new type of attacks sponsored by **Governments**



Increasing number of cybersecurity attacks by Criminals





Rapid adaptation of various IoT Edge-connected devices

Industrial



Consumer



Automotive



Regulatory Compliance and Industry Standard



Singapore



US

EU (RED)



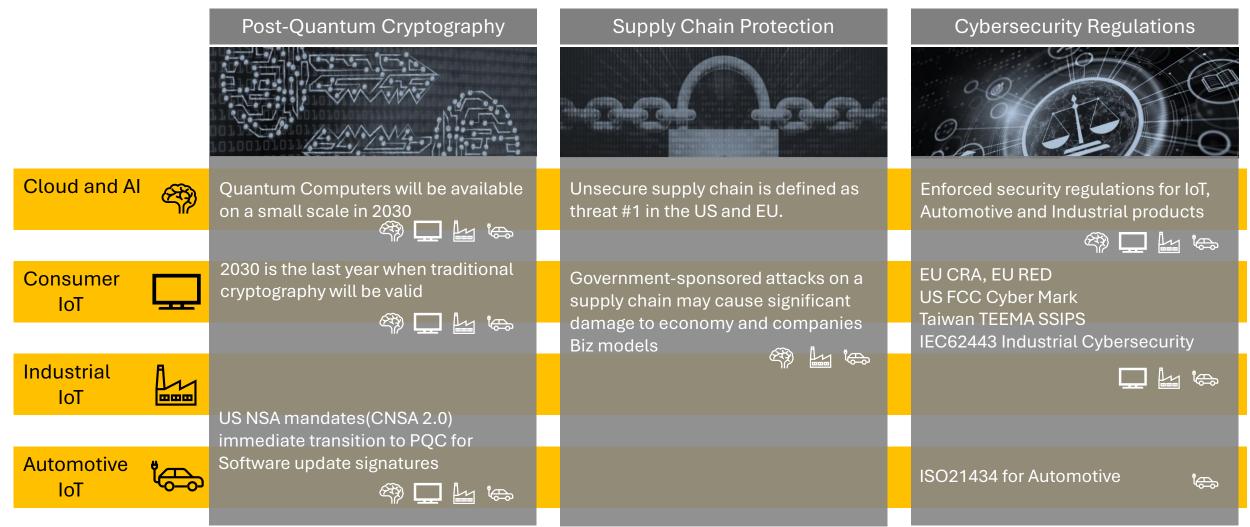
PQC

ISO/SAE 21434 ISA/IEC 62443





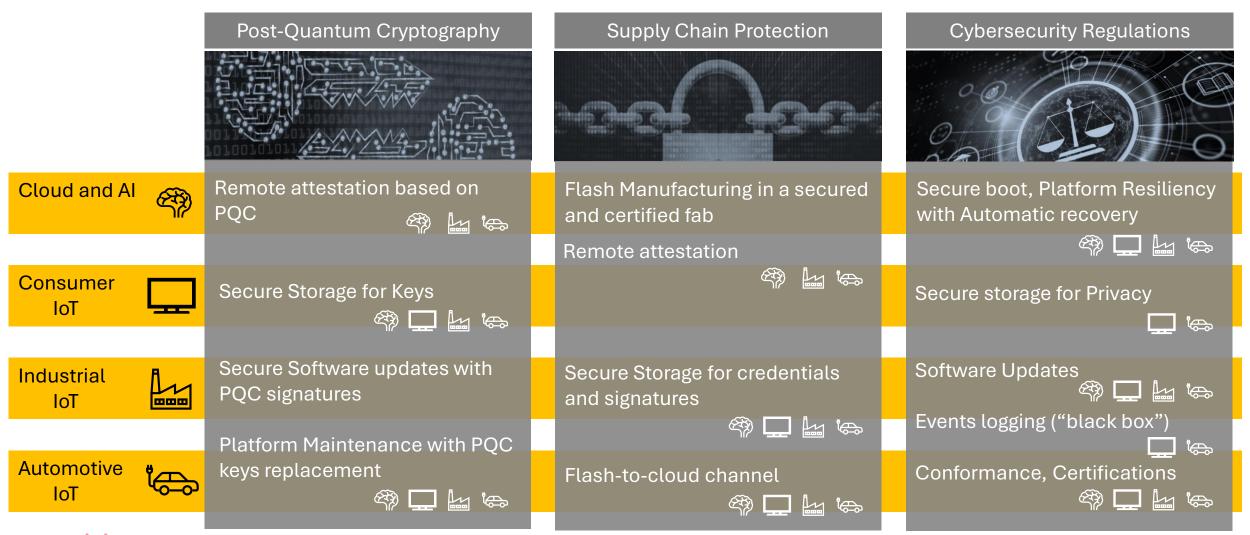
New Trends in IoT Cybersecurity





Requirements on Trends

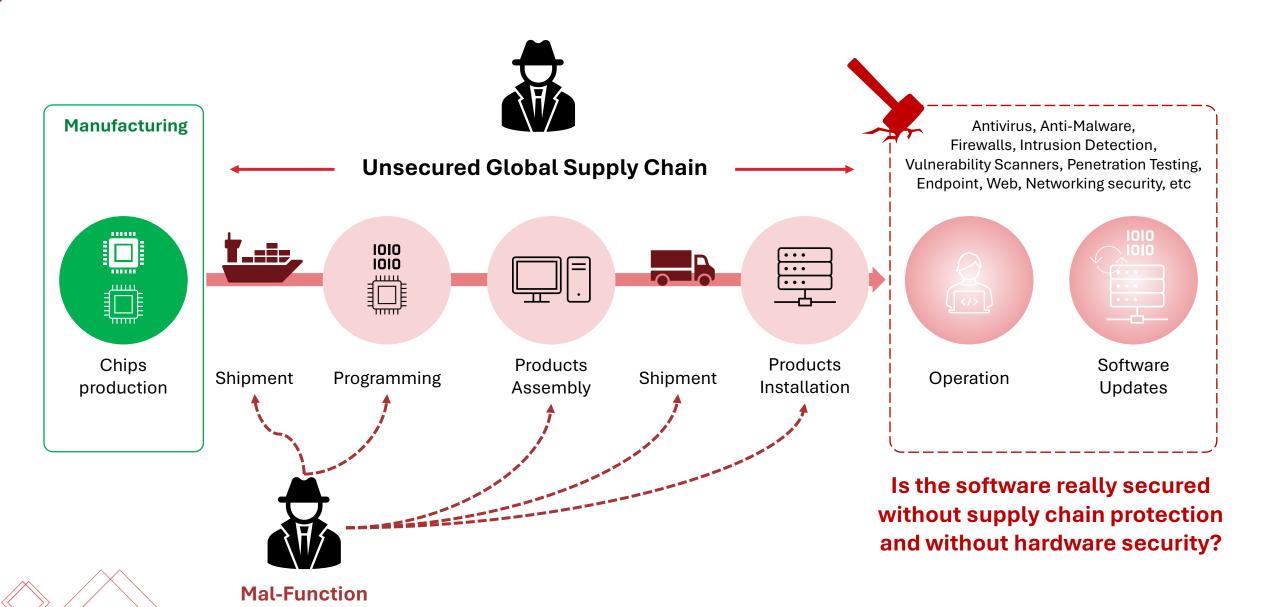
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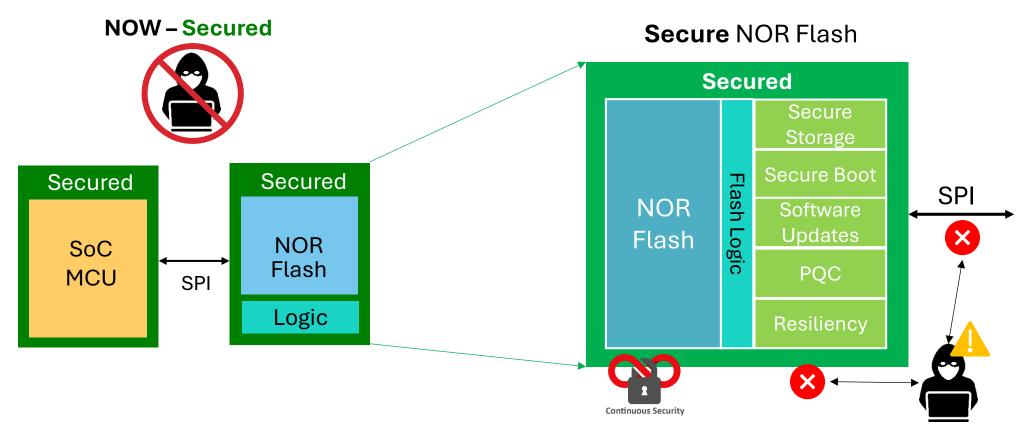


Hardware Security, in addition to Software Security

contamination



Migration Of the System Cybersecurity



Complete platform protection

by secure SoC/MCU and Secure NVM



Winbond Secure Flash Solutions





High (CC EAL5+)

Substantial (EAL CC2/3)

Basic

W25Q/W35T (Basic Security)

- Standard SPI Flash for code/firmware storage
- QSPI and Octal interface available
- Add RPMC for basic security

TrustME® Secure Flash

W77Q / W77T (Substantial Security)

- Drop-in replacement and Compatible to standard SPI Flash
- Server, IoT, Automotive, Industrial
- Platform Resiliency
- Post-Quantum Cryptography
- Supply chain protection
- Secure Storage
- Common Criteria EAL2, FIPS 140-3
- ISO26262 ASIL-C, ASIL-D

W75F (High Security)

- Hardware SPI interface SoC for high level security
- Mobile, iSIM (GSMA)
- PP0117 Secure Memory
- Common Criteria EAL5
- ISO26262 ASIL-D



Functions





Post-Quantum Cryptography



Supply Chain Protection



Cybersecurity Regulations



Basic Features • Secure Storage for credentials and signatures

- Secure boot
- Secure storage for Privacy
- Software OTA updates
- Platform Resiliency with Automatic Recovery

Unique Winbond Features

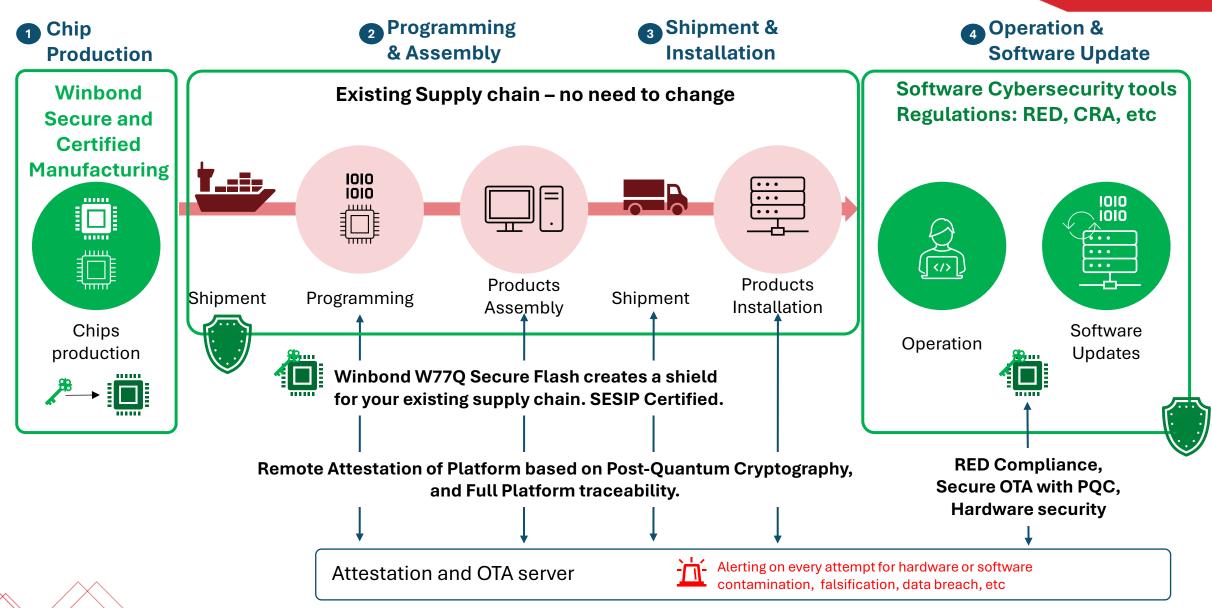
- 1st Flash vendor to support the PQC
- Remote attestation based on PQC
- Secure Software updates with PQC signatures

- Remote attestation
- Flash-to-cloud channel
- Flash Manufacturing in secured and certified fab
- Hardware Events logging ("black box")
- Conformance, Certifications
- Turn-Key solutions, including Software



Winbond Secure Flash Protects Your Products





Focused Applications

winbond



Cloud and Al







Applications

- Servers
- Al accelerators
- Enterprise Networking
- Enterprise PC

- Industrial controls
- Enterprise equipment
- Medical
- Consumer
- Networking

- Telematics
- Autonomous Al driving
- Public transportation

Successful cases

- SmartNIC
- Router
- Al server

- Industrial PC
- Enterprise Video Conference
- Docking Station
- IoT Connectivity Device

- Train controls
- Navigation
- Automotive eCockpit



Forward Looking on Secure Memory Market

□ From 2024, the demand for Secure Flash is getting significantly increased by

- Supply Chain Protection from Server eco-system and Automotive, especially with PQC support
- Regulatory and standard demand from EU "RED" and "CRA", US CSNA 2.0,
 Industrial Cybersecurity IEC62443 and Automotive Cybersecurity ISO21234
- System resilience according to the increasing potential threats

By this increasing demand and successful cases

- We expect a certain percentage of the existing business of NOR flash will migrate to secure memory according to the new security requirements
- With the new emerging demand on the Edge and Cloud market, the secure flash business can take >10% of the NOR revenue in 2027, and keep growing



