



2023 Q2 Conference Call

Agenda:

- About RichWave Technology
- Business Performance by Segment
- Financial Report
- ESG Highlight

About RichWave Technology



Business Direction & Strategy

Growing Position in WiFi– WiFi7 and Beyond

+

Diversified Offering in IoT, Mobile, Automotive Applications

+

Mastering Multiple Diversified Technology

+

Best Partner and Excellent Customer Service

Creating Long Term Value with Technology and Market Strategy

Worldwide Company Site



Founded
Jan. 2004



Listed in TSE
Nov. 2015



1H23 IC shipment
0.5BN pcs

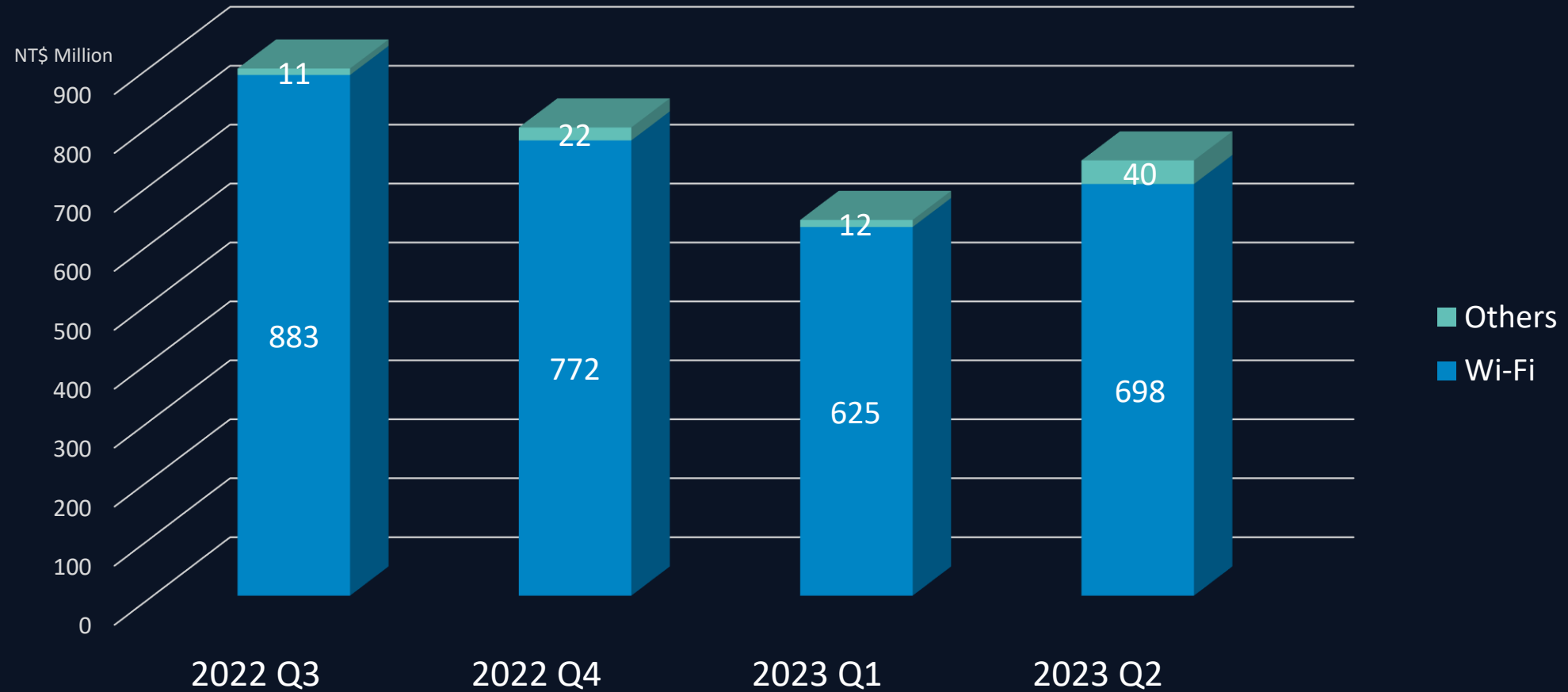


Product
270+



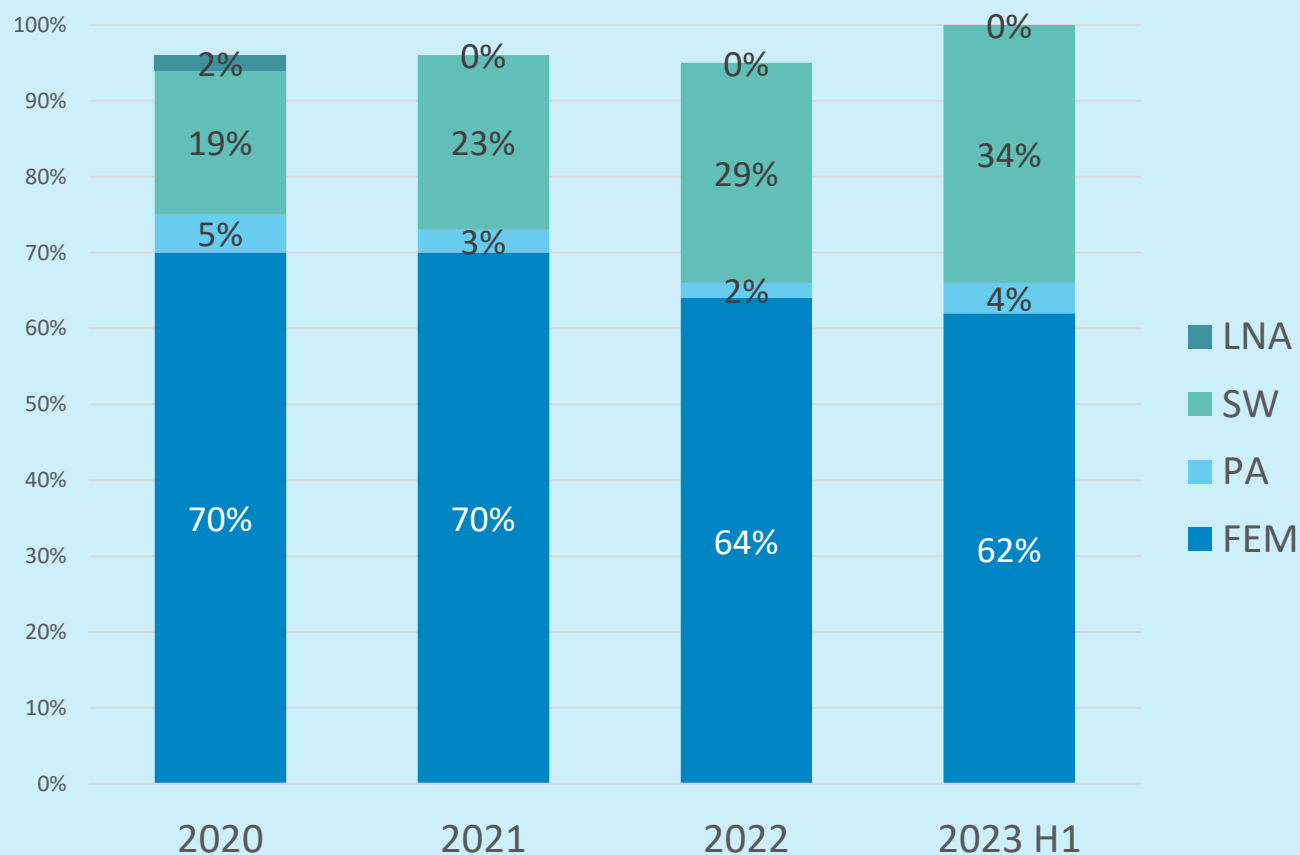
Granted patent
586

Revenue-by Segment



Position in High Performance FEM and 3rd Parties' Platform

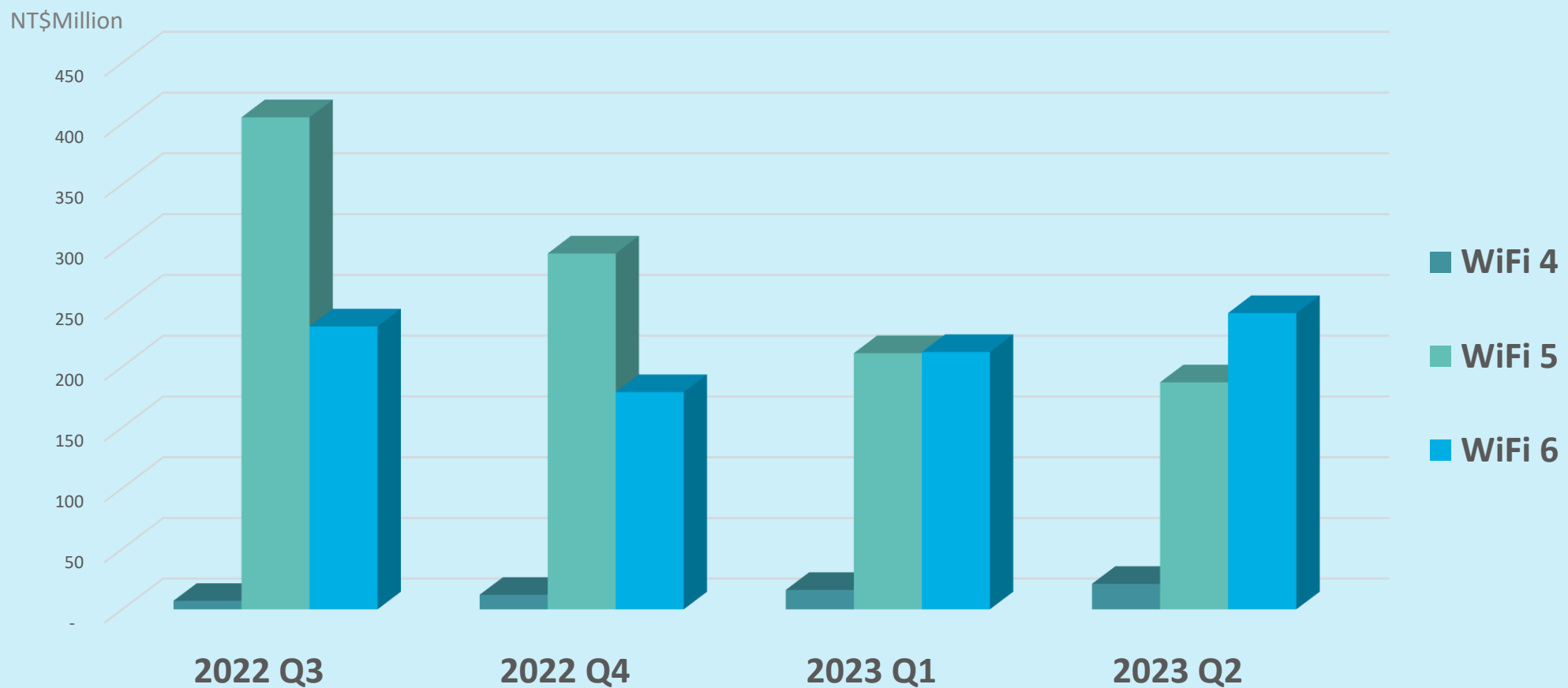
Position in High Performance FEM market



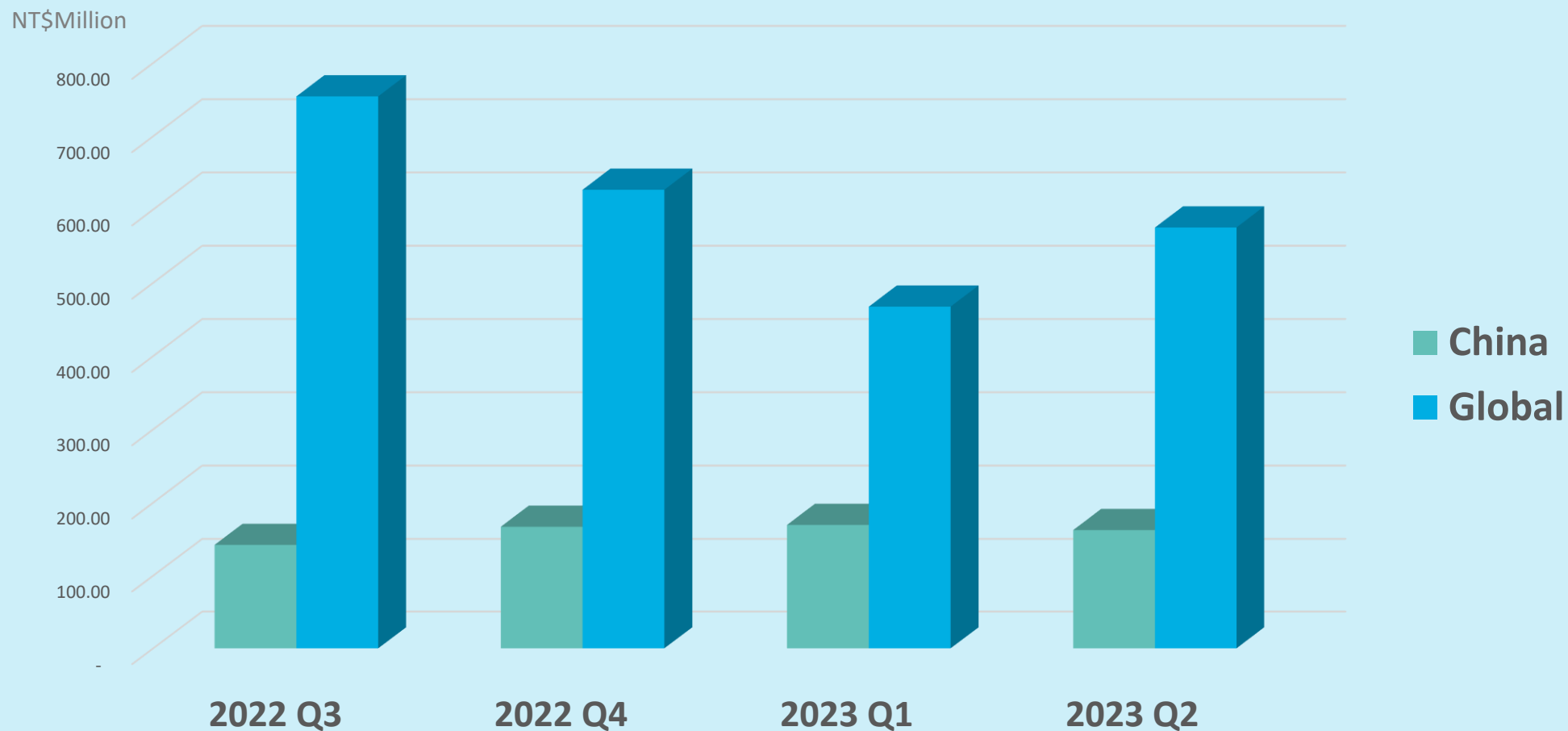
Qualified by main chip platforms



Wi-Fi Revenue by Protocol



Wi-Fi Revenue by Region

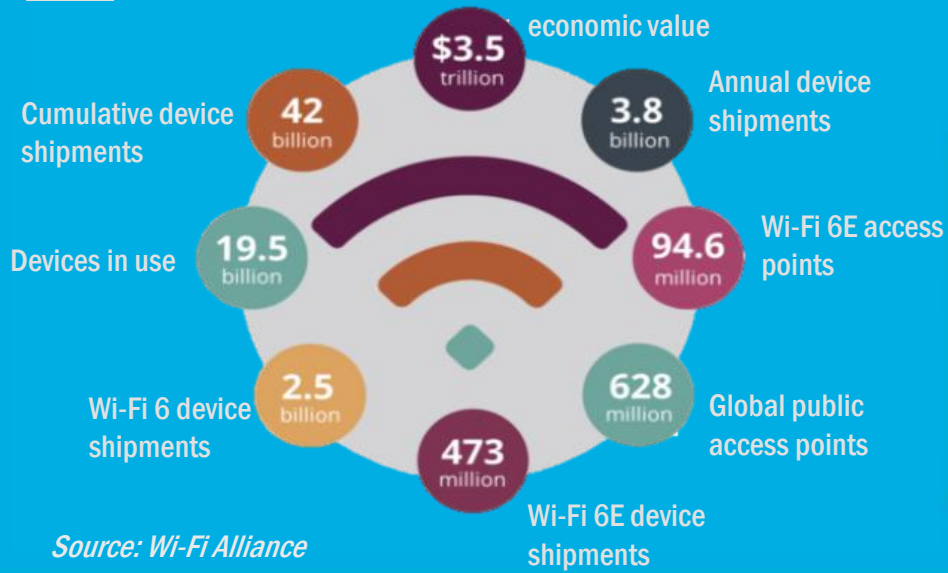




Wi-Fi

- Growing global business and customer base.
- Technology position in broadband trend and WiFi7.
- Expanding filter product line: Design in EU operators + branding networking providers.

Wi-Fi By the numbers 2023



- 4 802.11n
- 5 802.11ac
- 6 802.11ax
- 6^E 802.11ax
- 7 802.11be





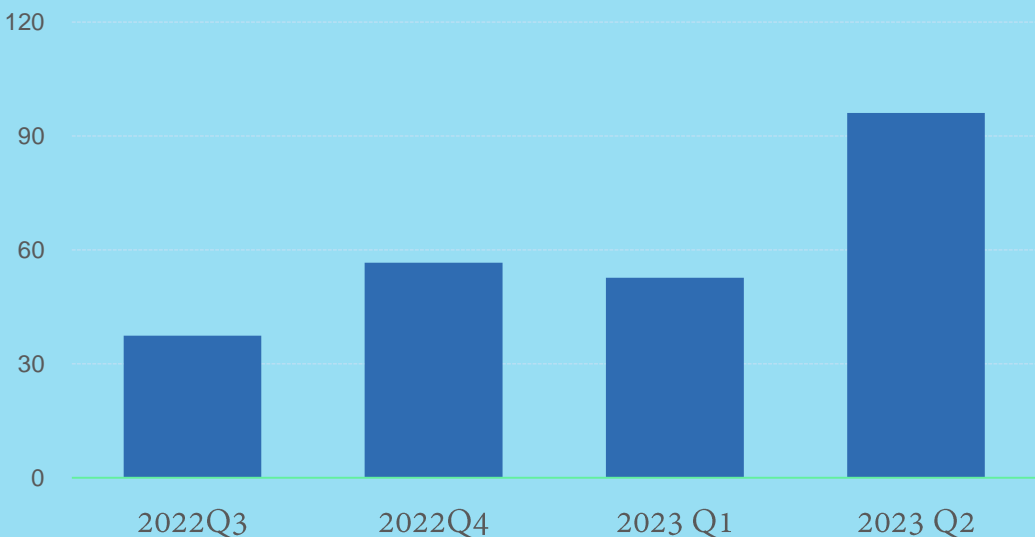
Mobile

- Expanding smartphone product line.
- Smartphone Wi-Fi6 FEM shipping continues.
- Smartphone WiFi6E FEM design in new customer.



MOBILE PRODUCT REVENUE

NT\$Million



MOBILE PRODUCT

Wi-Fi

- Rx-FEM
- Full-FEM
- Switch
- Diplexer
- filter

4G/5G

- Tuner/SRS/LTE SW, GPS filter/diplexer, LTE Tx/Rx filter, GPS LNA/FEM, LTE LNA

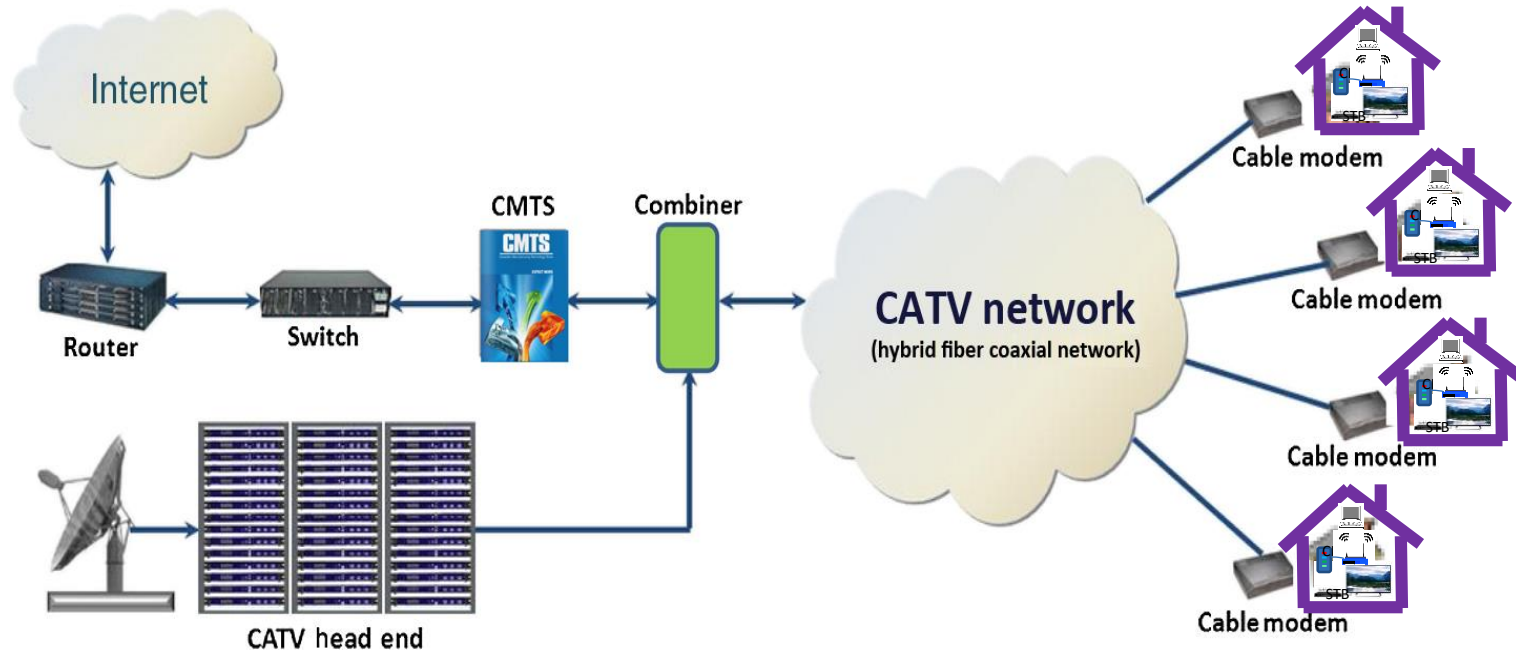
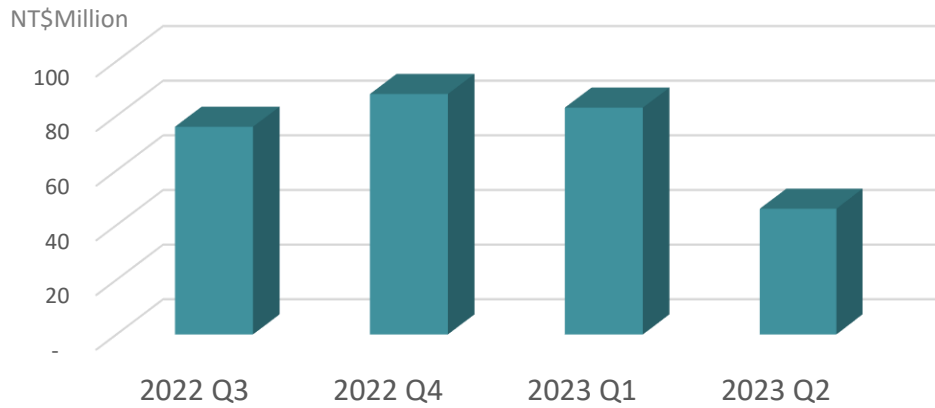
FM

- Broadcasting FM Tuner

Cable Switch

- Continue to win cable/DOCSIS switches in cable modems with US/EU operators.
- Cable switch market share increases.

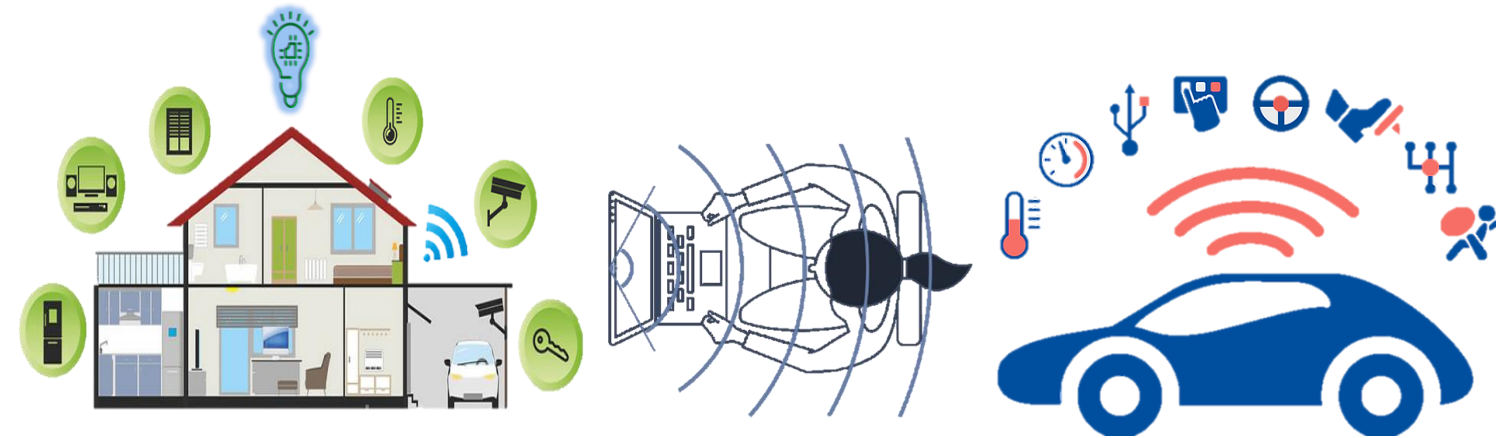
Cable switch Revenue



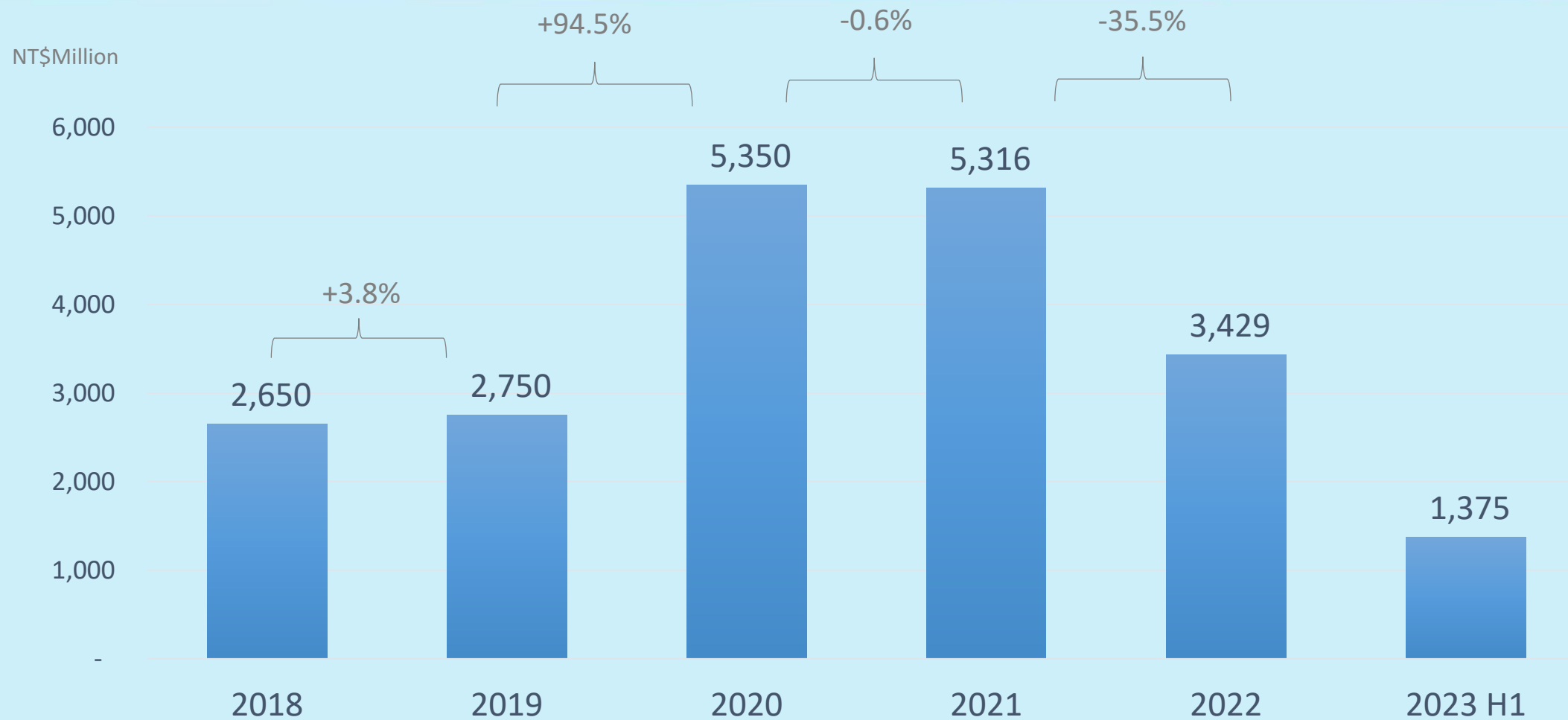
Radar Sensor

To See Beyond Your Vision

- Shipment for 5.8GHz radar sensor used in smart lighting, e-lock and car security continues.
- 10GHz radar sensor solution expands to smarter appliances application, including air conditioner & TV
- In-design with millimeter wave radar.



2018-2023H1 Net Sales



2021-2023Q2 P&L

NT\$ Thousand	2021		2022		2023 Q1		2023 Q2		QoQ
	Amount	%	Amount	%	Amount	%	Amount	%	%
Net Revenue	5,316,267	100%	3,429,371	100%	636,974	100%	737,954	100%	+16%
Operating Cost	3,770,235	71%	2,370,781	69%	480,130	75%	559,909	76%	+17%
Gross Profit	1,546,032	29%	1,058,590	31%	156,844	25%	178,045	24%	+14%
Operating Expense	1,012,424	19%	1,075,795	31%	268,004	42%	272,367	37%	+2%
Operating Profit	533,608	10%	17,205	-0.5%	111,160	-17%	94,322	-13%	+15%
Non-Op. Profits(Loss)	- 6,702	-0.1%	78,494	2.3%	279	0.04%	24,186	3.3%	+8569%
Profit before Tax	526,906	10%	61,289	1.8%	110,881	-17%	70,136	-10%	+37%
Income Tax (Expense)Benefit	- 61,389	-1.2%	- 6,230	-0.2%	21,948	3.4%	15,678	2.1%	-29%
Net Income after Tax	465,517	8.8%	55,059	1.6%	88,933	-14%	54,458	-7.4%	+39%
EPS	5.26		0.62		-0.99		-0.60		



GOVERNANCE

- ◆ Continuously optimized the corporate governance system, the score of 2022 Corporate Governance Evaluation improved by **11%** compared to 2021.
- ◆ **0** case of violating ethical corporate management, and **0** accusation of unethical corporate management behavior.
- ◆ New-established Product Research & Development Team under Sustainability Project Team launched representative products in 2022 : **WiFi6E Dual Band FEM**, and **WiFi7 high-isolation DPDT Switch**.
- ◆ Over **500** patents accumulated worldwide in 2022
- ◆ **100%** of main suppliers obtained ISO14001 (environmental) /ISO9001 (quality), and IATF16949 (automotive industry of quality) management system certifications.
- ◆ The proportion of local production procurement amount reached **69.9%**.
- ◆ The quality management system tracked **100%** of the material met the requirements of RoHS, Halogen-Free, REACH.
- ◆ Audit of ESG execution reached **100%**, and achieve **100%** pass rate.
- ◆ Customer satisfaction reached **98** out of 100 points.

2022 ESG Highlights



Environment

- ◆ Implementation of ISO14001 environmental management system and ISO14064 greenhouse gas inventory in 2022, and obtained **dual international certifications** at the same year.
- ◆ Energy Use Intensity (EUI) decreased **5.8%** compared to 2021.
- ◆ Applied on Energy conservation and carbon reduction solutions in 2022 have reduced external electricity purchase by **6,857.59** kWh, which was equivalent to lowering **3.4905** tCO₂e GHG emissions.
- ◆ The water intensity in 2022 decreased by **2.3%** from that in 2021.
- ◆ Waste emissions in 2022 decreased by **31.03%** from that in 2021.





SOCIAL

- ◆ Organized numerous professional & general knowledge courses across different disciplines, training a total of **1,135** persons & accumulating **1,969** lecture hours .
- ◆ **100%** of employees regularly received performance appraisals and career development reviews according to gender or work position ranks within the company.
- ◆ Pay attention to employees' health via hiring medical professions to conduct regular on-site health services around **3-4** times/month. **Non-Occurrence** of occupational disasters.
- ◆ **Industry-Academy research & cooperation** with PhD, Masters, and undergrad students with Institution of Electronics of National Taiwan University, and Institution of Telecommunications Engineering of National Yang Ming Chiao Tung University.
- ◆ Donated a total of **3** batches of OA desks to government organizations to create a comfortable environment for people of disability, physical or mental disabilities, and elderly.
- ◆ Employees volunteer group participated in **4** Christmas charity activities to drive **fundraising** for children in Nepal.
- ◆ Sponsorship NT\$**105,000** along with **200** tree-planting action with the organizer TOFA to motivate employees to environment preservation, and promote our commitment to environmental sustainability.



Thank you

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