



# 2023 Q3 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**



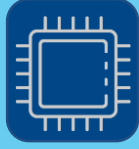
Founded

Jan. 2004



Listed in TSE

Nov. 2015



Product

270+



WW Granted Patent

606



IC shipment

0.6BN pcs



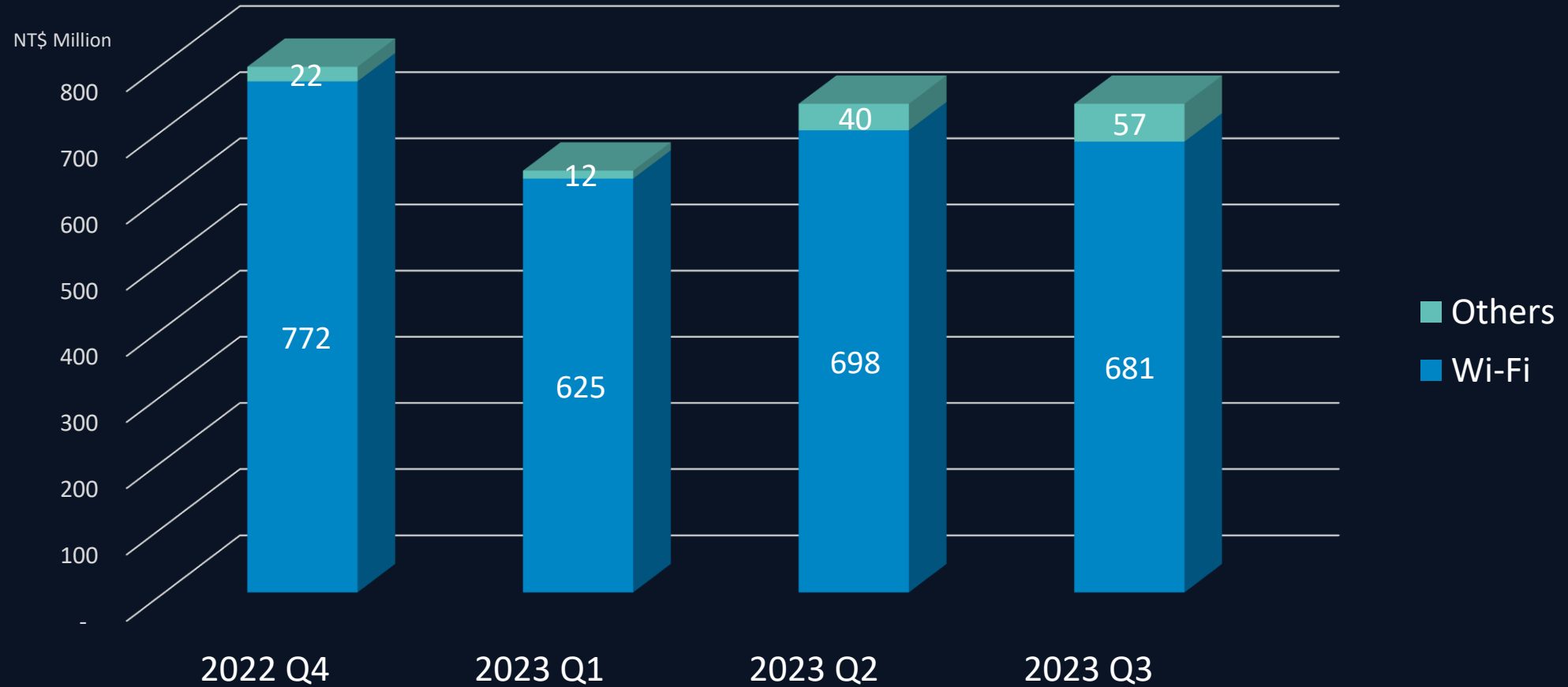
IP Ranking

89

## Worldwide Company Site

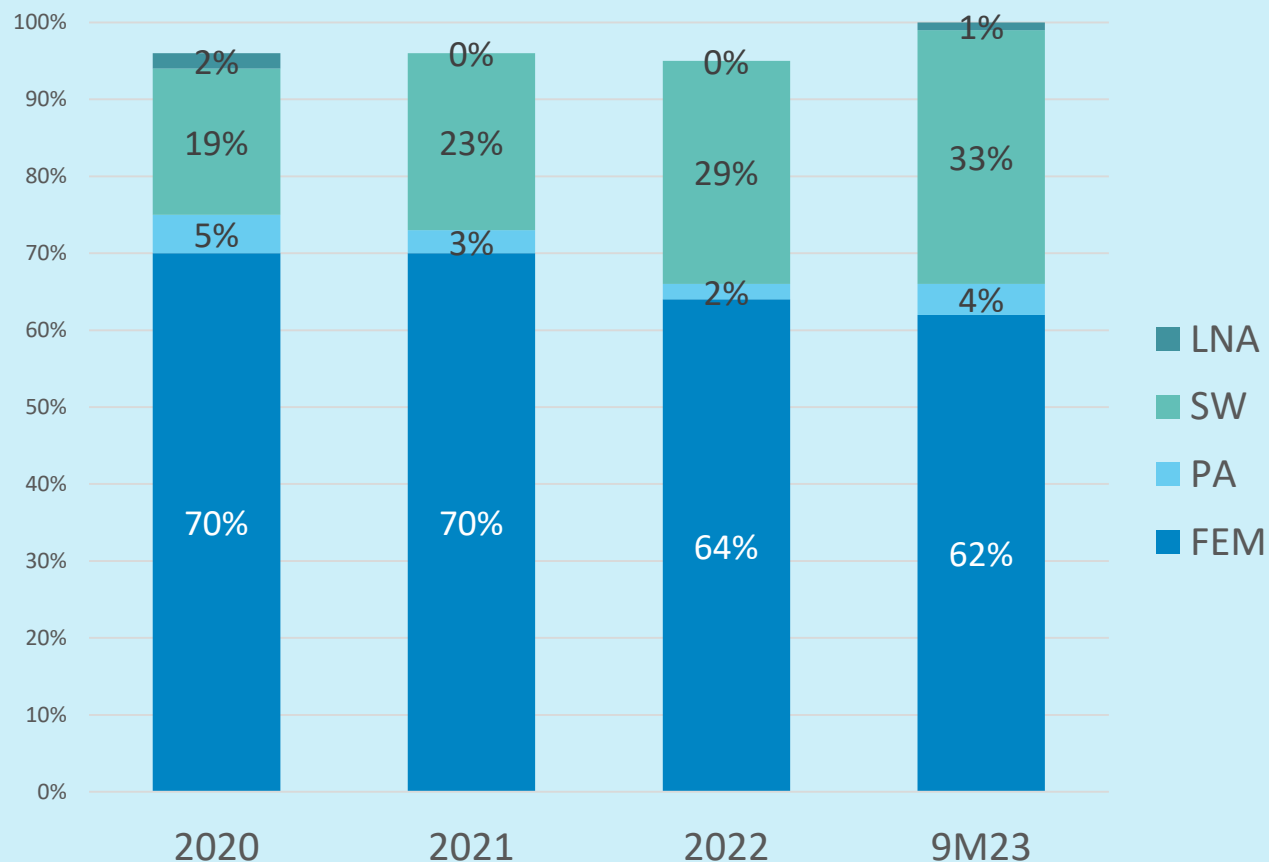


# Revenue-by Segment



# Position in High Performance FEM and 3rd Parties' Platform

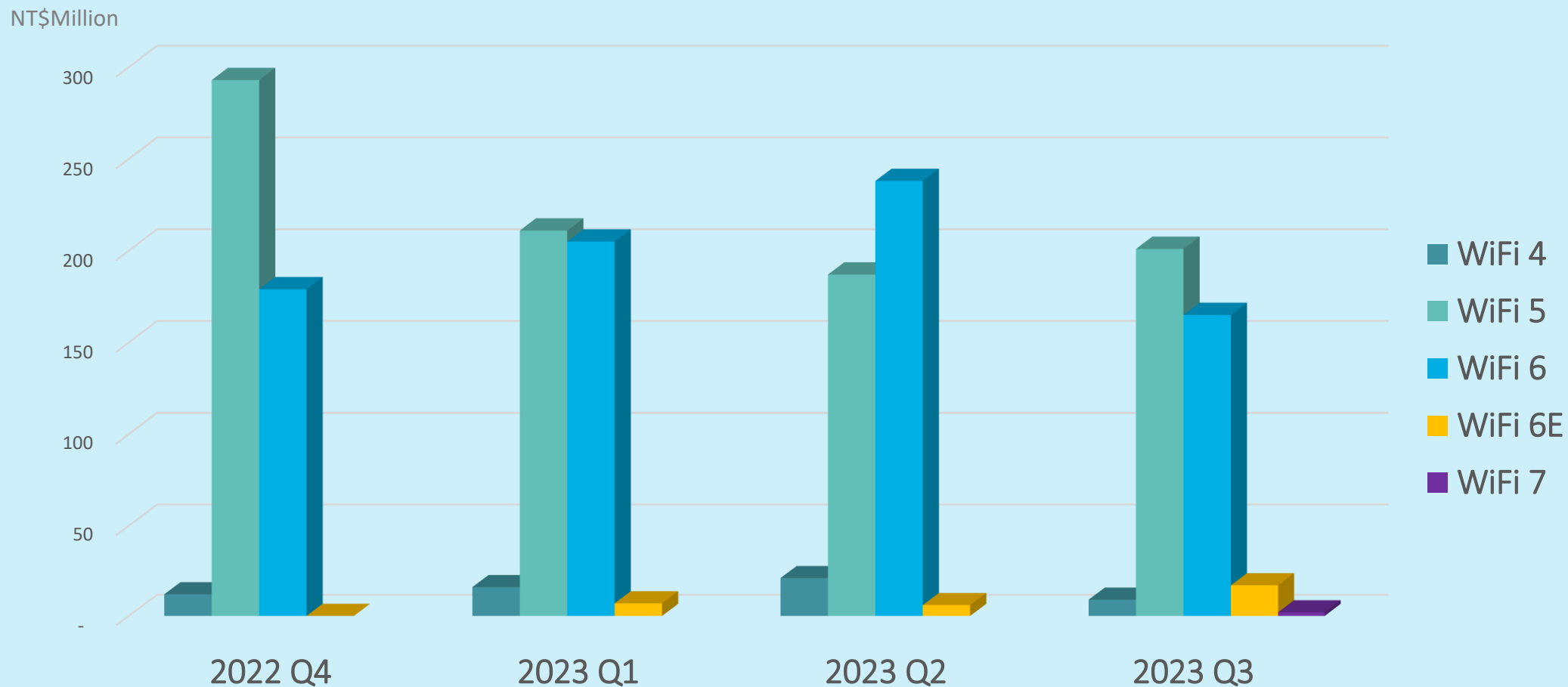
Position in High Performance FEM market



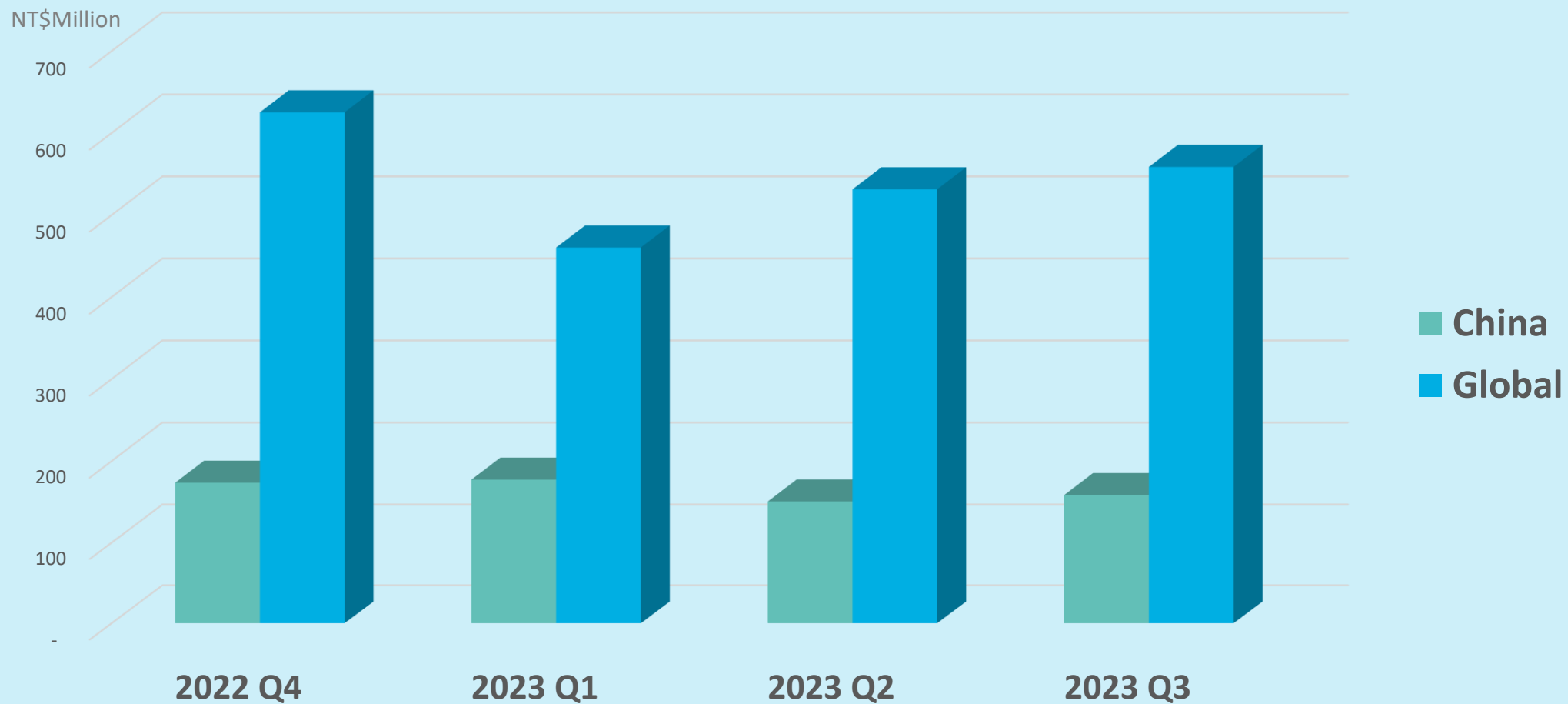
Qualified by main chip platforms



# Wi-Fi Revenue by Protocol



# Wi-Fi Revenue by Region

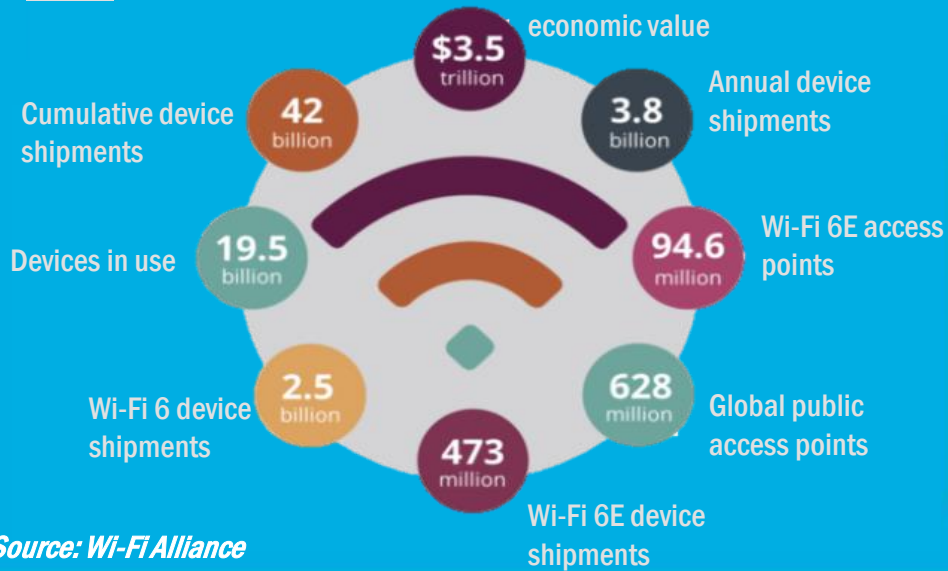




# Wi-Fi

- 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



Source: Wi-Fi Alliance

- 4 802.11n
- 5 802.11ac
- 6 802.11ax
- 6<sup>E</sup> 802.11ax
- 7 802.11be



SAGEMCOM

Telefonica

Google

amazon

Reliance Industries Limited

orange™



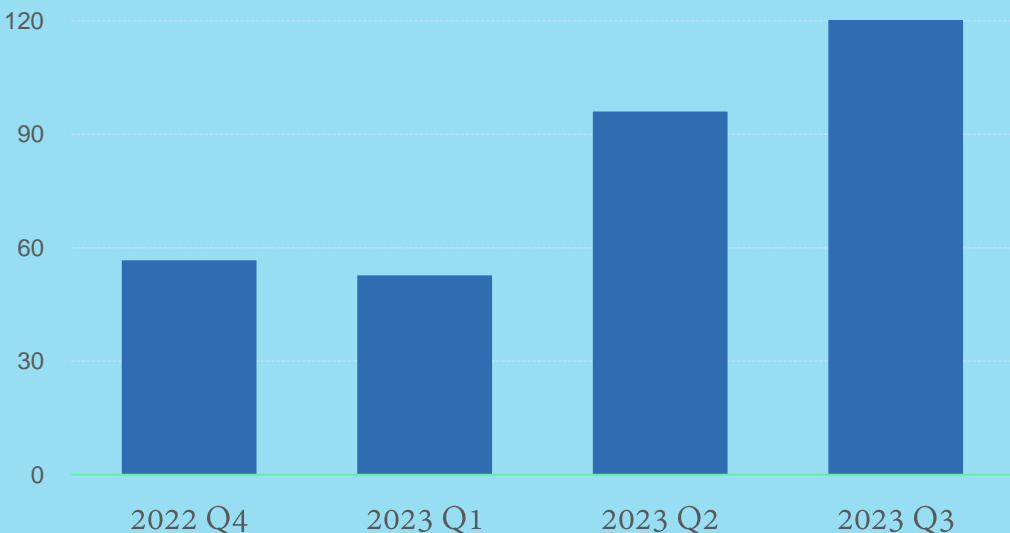
# Mobile

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



## MOBILE PRODUCT REVENUE

NT\$Million



FEM



LNA



SW



Filter



## 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

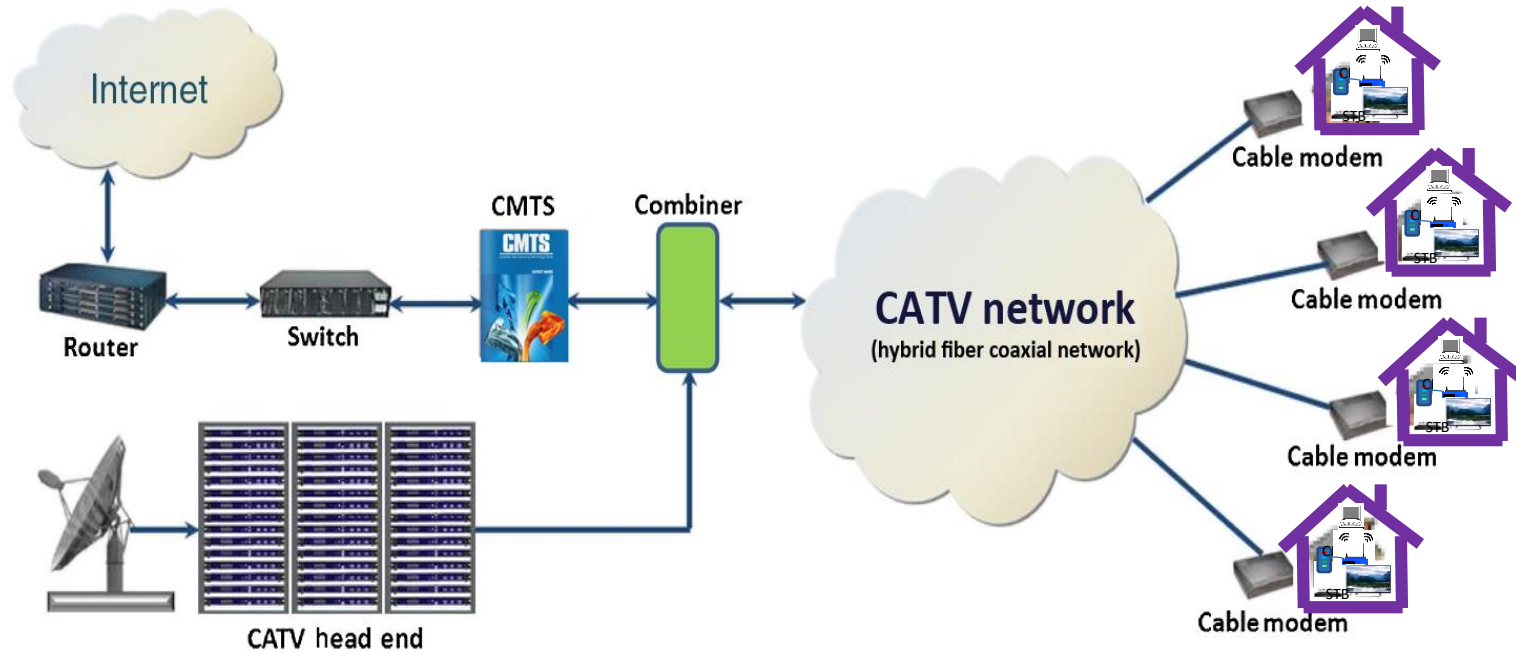
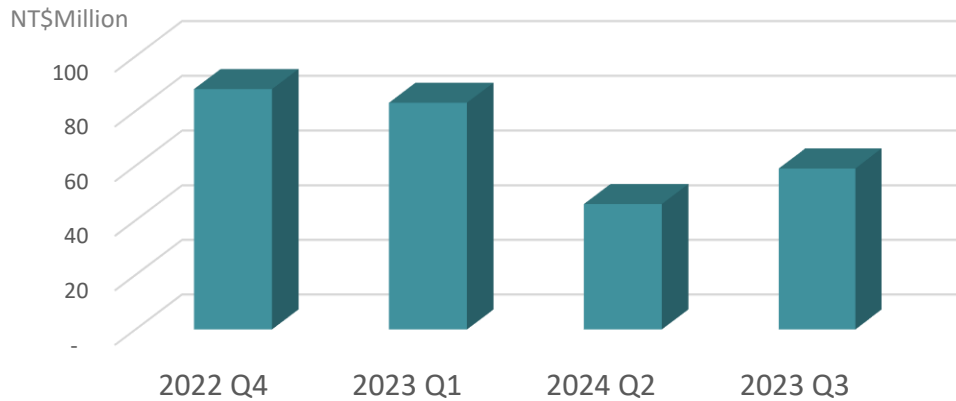
- Broadcasting
- FM Tuner



# Cable Switch

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

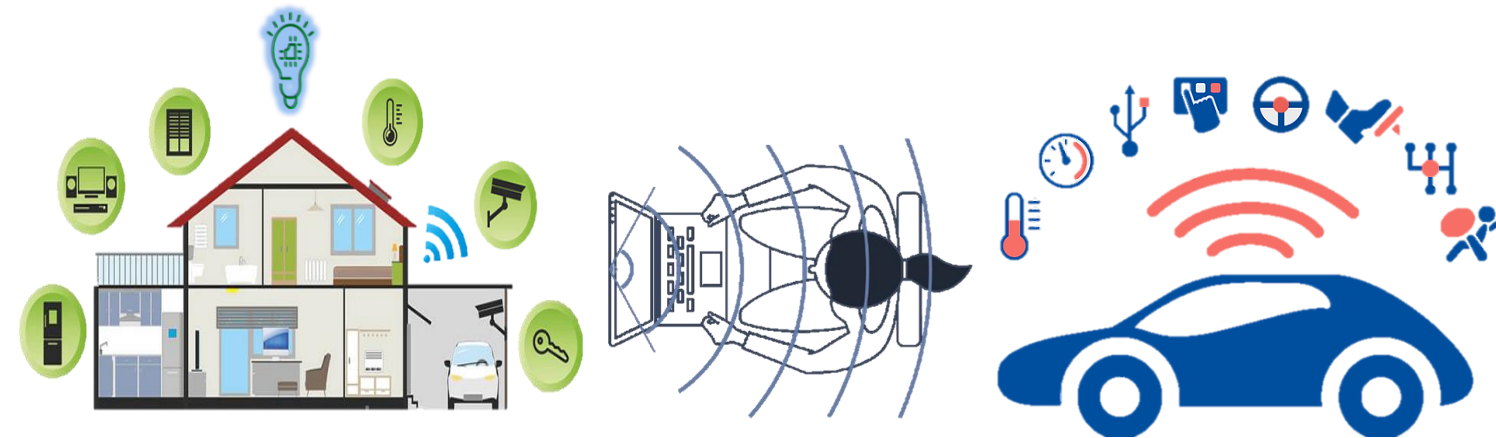
Cable switch Revenue



# 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.



# 2022Q4-2023Q3 P&L

	2022 Q4		2023 Q1		2023 Q2		2023 Q3		QoQ
	Amount	%	Amount	%	Amount	%	Amount	%	%
Net Revenue	794,169	100%	636,974	100%	737,954	100%	738,381	100%	0.1%
Operating Cost	555,731	70%	480,130	75%	559,909	76%	547,267	74%	-2.3%
Gross Profit	238,438	30%	156,844	25%	178,045	24%	191,114	26%	7.3%
Operating Expense	277,159	35%	268,004	42%	272,367	37%	276,396	37%	1.5%
Operating Profit	-38,721	-5%	111,160	-17%	94,322	-13%	-85,282	-12%	9.6%
Non-Op. Profits(Loss)	-58,961	-7%	279	0.04%	24,186	3.3%	30,275	4%	25.2%
Profit before Tax	-97,682	-12%	110,881	-17%	70,136	-10%	-55,007	-7%	21.6%
Income Tax (Expense)Benefit	-14,363	-2%	21,948	3.4%	15,678	2.1%	10,001	1%	-36.2%
Net Income after Tax	-83,319	-10%	88,933	-14%	54,458	-7.4%	-45,006	-6%	17.4%
EPS	-\$0.94		-0.99		-0.60		-0.50		

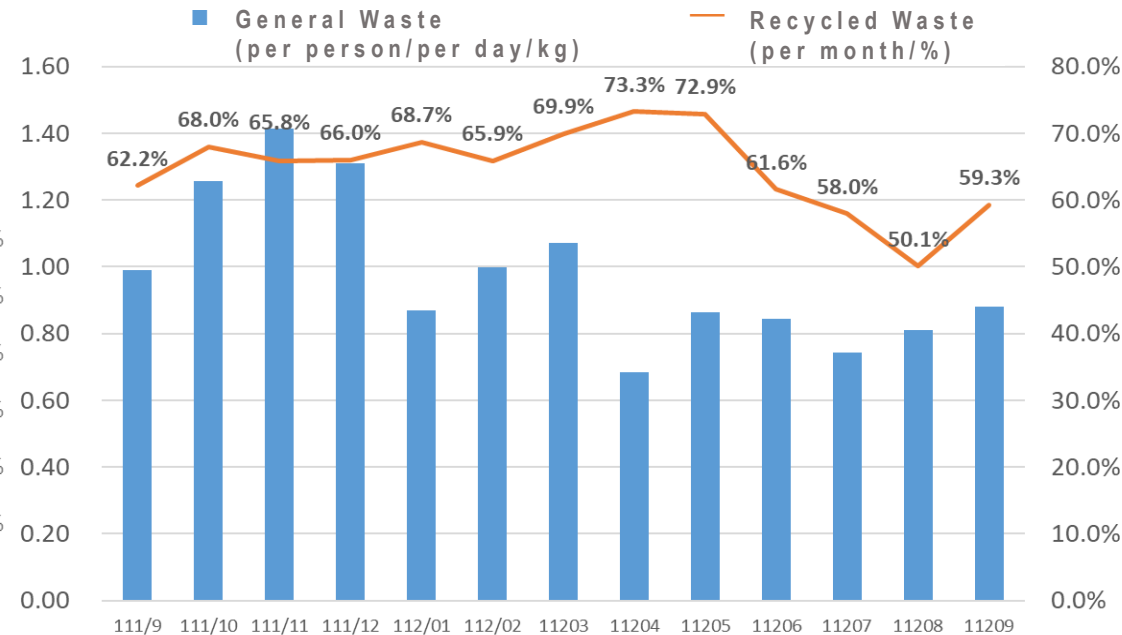
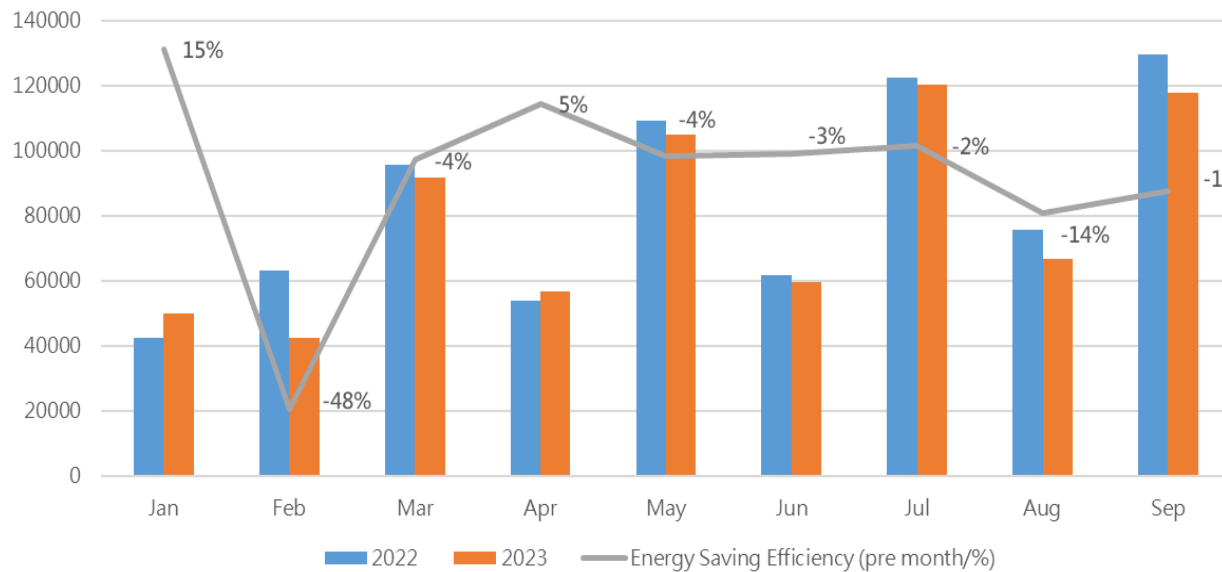
# ESG Highlight-Energy Saving Carbon Reduction

- 2023 Energy Saving Plan: Control of the Air-Conditioner Panel, Review and Adjustment of the calculation basis of Taipower Contractual Capacity, Energy Saving Diagnosis Service, Installation of Air-conditioner Switch, Office Energy Saving Campaign
- As of Sep. 2023, Reduced 5.7% Electric consumption, equals to 21.4283 tCO<sub>2</sub>e GHG emission
- The general waste weight reduced 451.2kg in one quarter in 2023, equals to 0.2 CO<sub>2</sub>e GHG emission



## Waste Reduction

Energy Saving Efficiency Jan. 2022~Sep. - RichWave



# Disclaimer

---



This document may contain forward-looking statements, including but not limited to all statements that address activities, events or developments that the Company expects or anticipates to take place in the future based on the projections of the Company toward the future, and various factors and uncertainty beyond the Company's control. Therefore, the actual results may differ materially from those contained in the forward-looking statements.

Some factors may cause actual results materially different from the information provided herein. These factors are: the impact of competition on product and pricing, timely acceptance of products design by our customers, timely introduction of new technologies, ability to ramp new products into volume, industry's shifts in supply and demand for semiconductor products, market oversupply or shortage, availability of supply chain capacity, financial stability in end markets, potential difficulties in talents retention, unexpected costs and expenses, loss of significant customers, involvement in legal or administrative proceedings, new regulations that may impact our business operation, fluctuations in foreign exchange rates, global economic conditions or non-economic conditions and any other risks factors.



# Thank you

---

Follow us on:  

For more information, visit us at:

[www.richwave.com.tw](http://www.richwave.com.tw)