

The RichWave logo features the word "RichWave" in a bold, white, sans-serif font. Above the letter "i" in "Wave", there are three curved lines of increasing size, resembling a signal or a wave.

RichWave

Bridge Everything with Connectivity

May 2020



COMPANY OVERVIEW

SHANGHAI
SHENZHEN
SEONGNAM
TAIPEI
CHUPEI
SAN JOSE



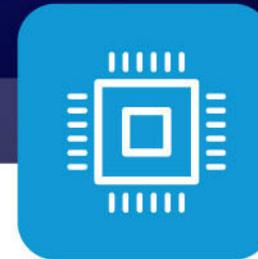
Founded
Jan. 2004



Listed in TSE
Nov. 2015

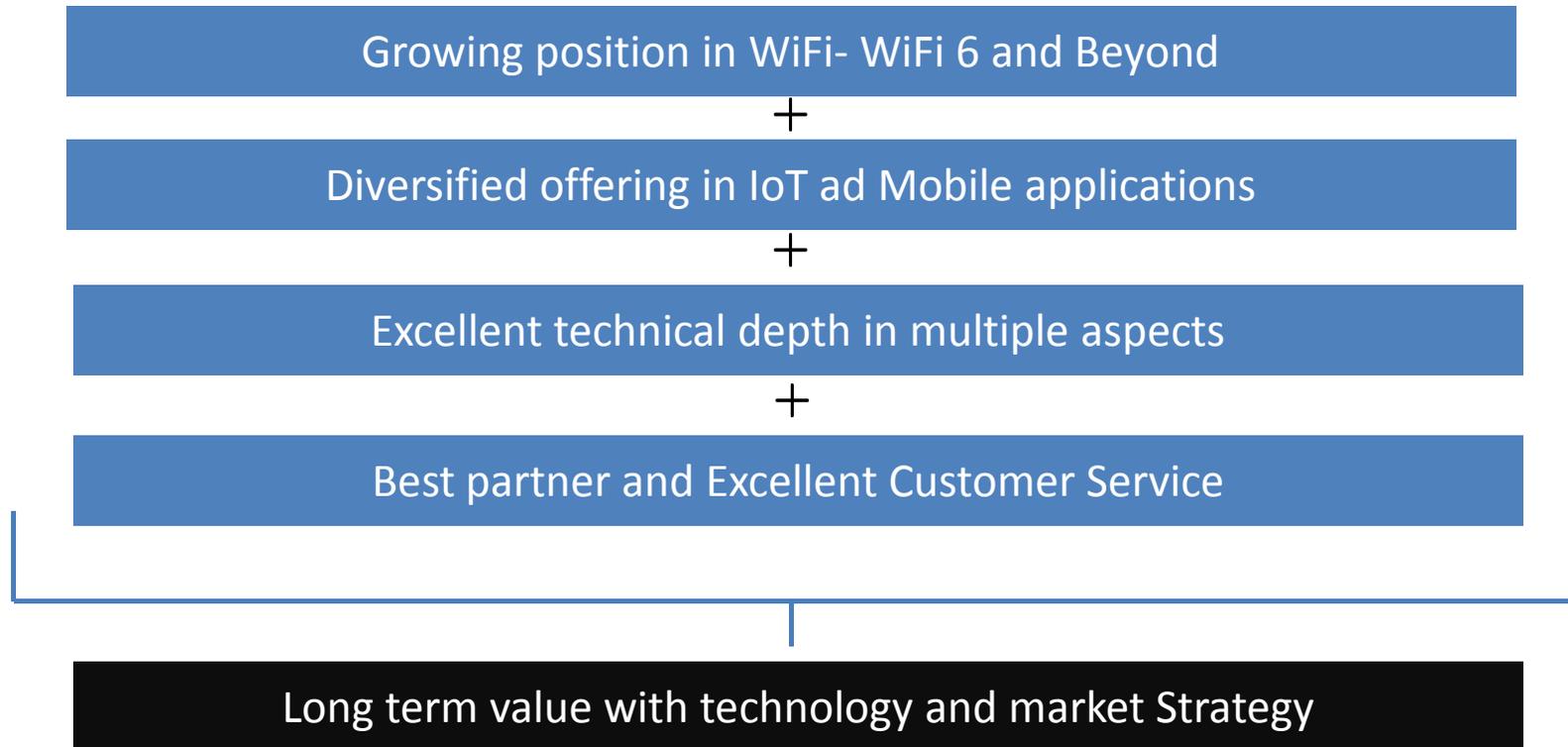


Customers
100+

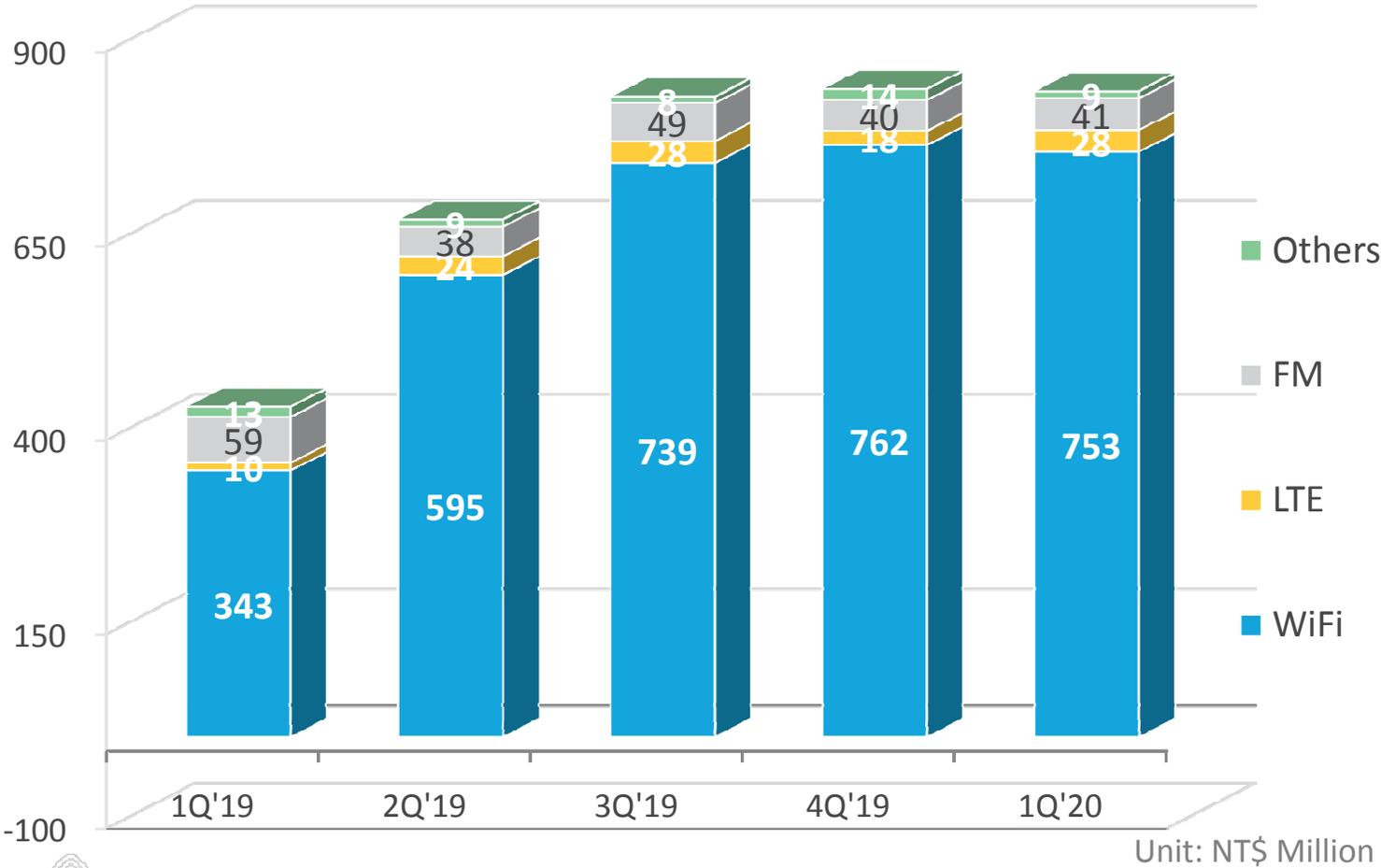


Products
270+

Business Direction & Strategy

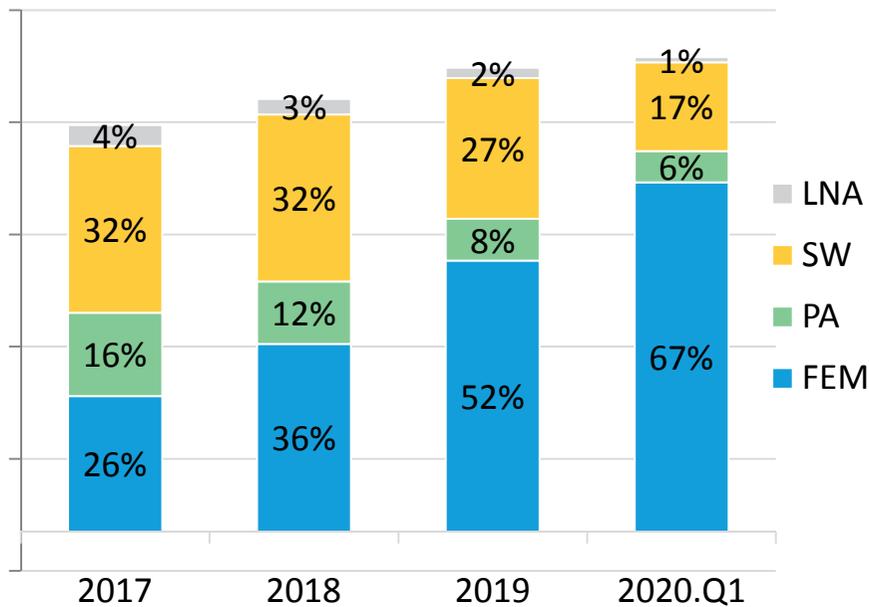


Revenue Breakdown by Segments



Win in High Performance FEM and 3rd Parties' Platform

High Performance FEM Win more Markets

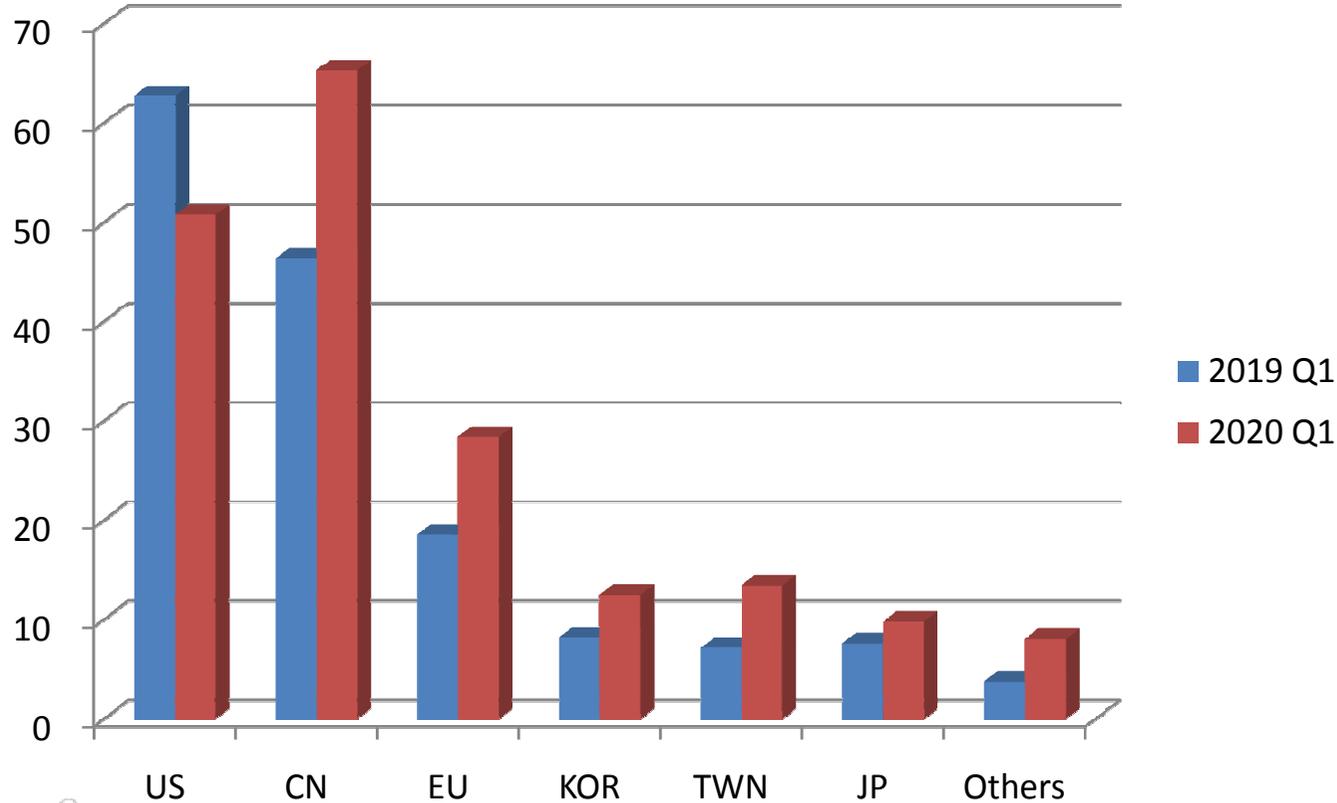


Win Reference/AVL in WiFi Platforms



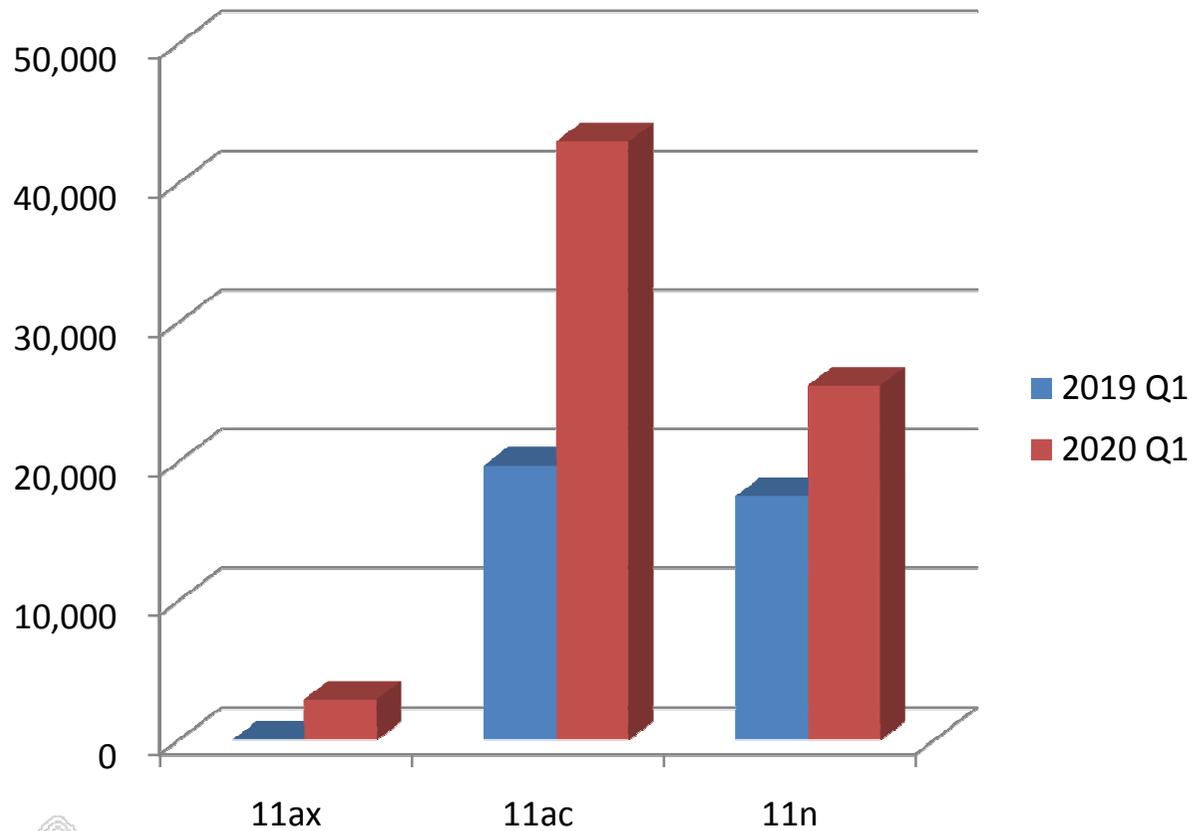
WiFi Quantity Breakdown by Areas

Unit: Million



WiFi Quantity Breakdown by Standards

Unit: Thousand



Business Wins – WiFi

- WiFi5/WiFi6 – Connectivity
 - Continue to win in Huawei WiFi5 and WiFi6 AP routers. Continue solid and strong business and shipment to Huawei AP WiFi5/WiFi6 AP routers.
 - Continue to expand WiFi FEM business in global branding customers.
- WiFi5 – Mobile
 - Continue to design in and design win WiFi5 projects in Lenovo, Samsung, LG smart phones with Qualcomm and MTK WiFi platforms.



Lenovo

SAMSUNG



Mobile

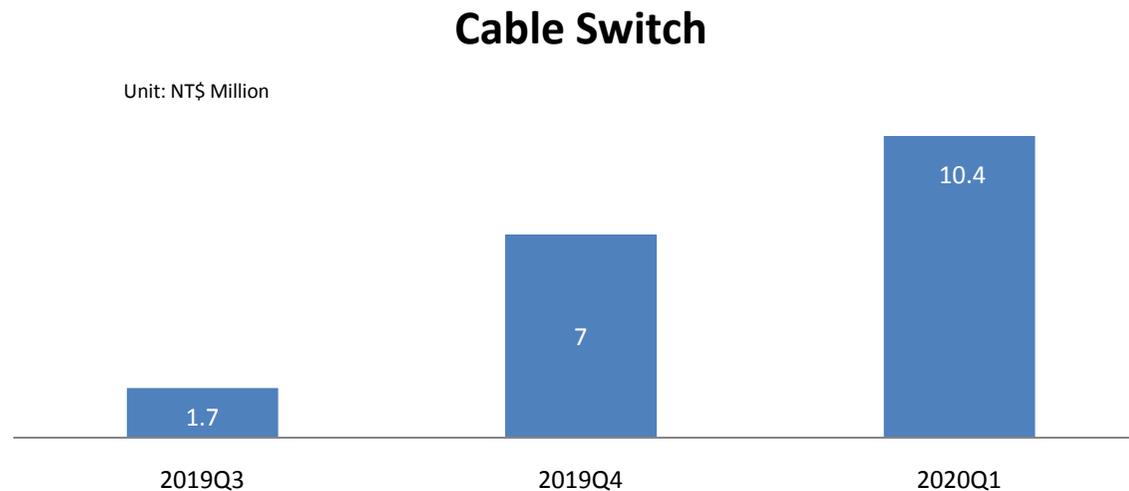
- FM Tuner continues to ship to Korea branding customers stably.
- New request for FM Tuner from Japan branding customers.
- SW/LNA ramp up in LG phone.
- WiFi FEM slow in Q1, and is expected to resume back and go up in Q3.



Mobile		
WiFi	FM	RFFE Component
Rx-FEM Full-FEM Switch	Broadcasting FM Tuner	LNA, Switch, Antenna Tuner, Filter, DPX

Cable Switch

- Continue to win cable/DOCSIS switches in cable modems with Commscope, Sagemcom, Technicolor and others for major US/EU cable operators
- Business is expected to continuously go up in upcoming quarters



IoT Moving Up

- Automotive RFFE start MP
- WiFi/BT RFFE shipping and design-win
- Sensor design-win for smart home in 5Ghz and 10G

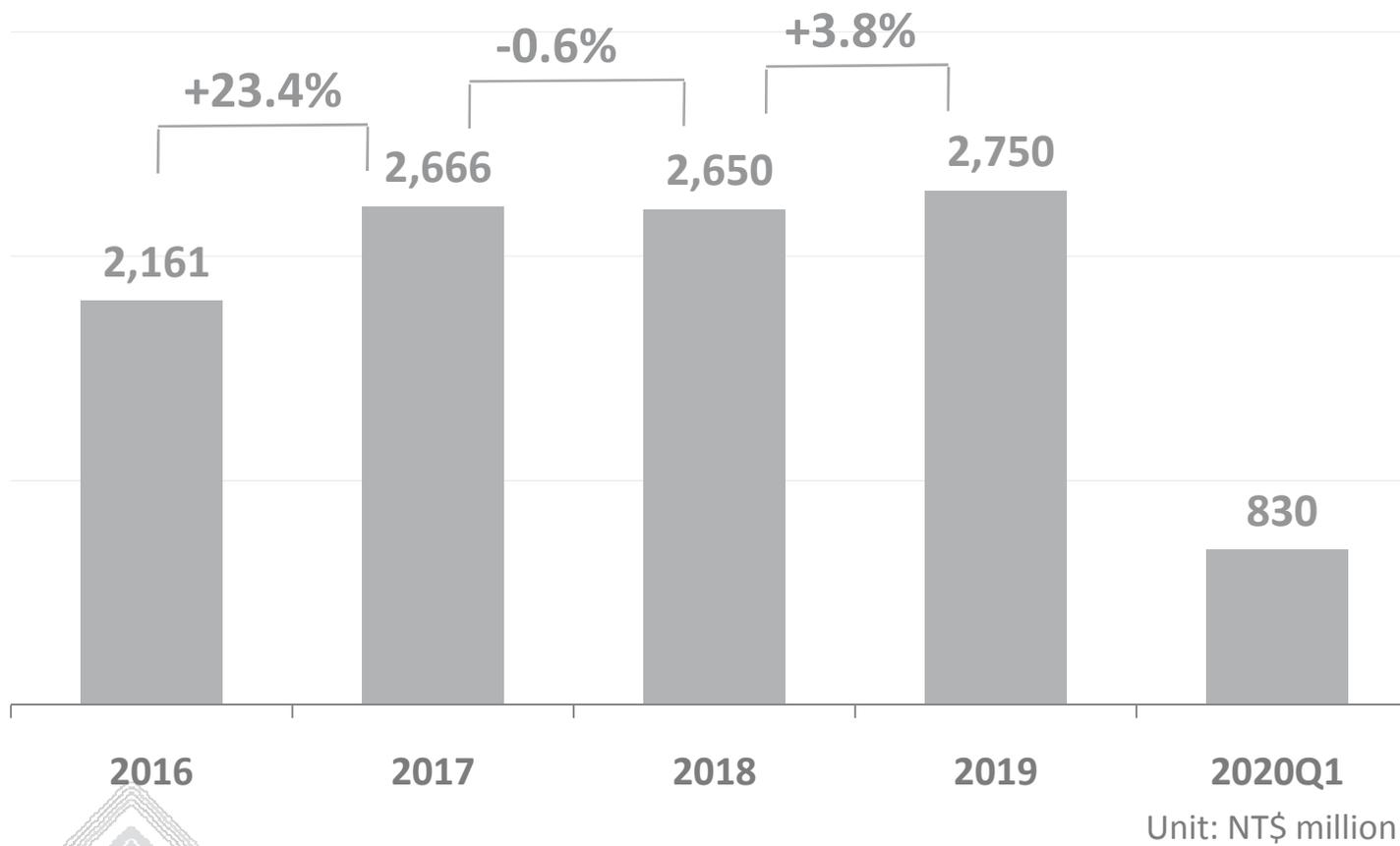


Source: Web

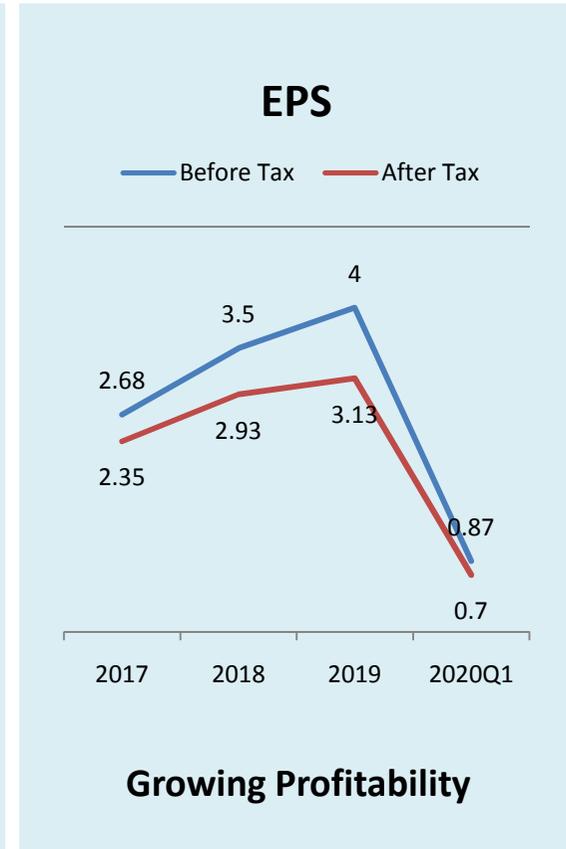
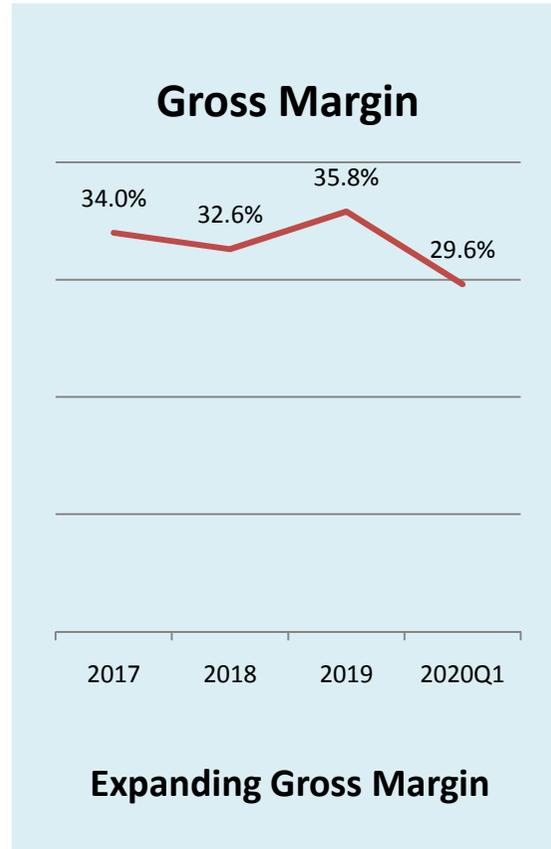
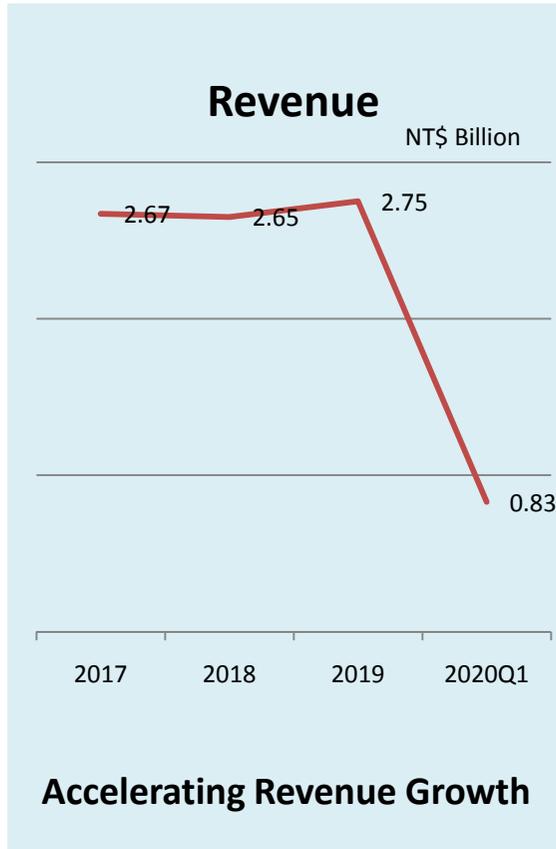


IoT		
Sensor	Component	Automotive-Consumer

Net Sales 2014 – 2020

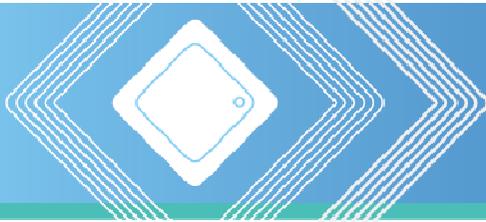


Financial Momentum and Growth



2020 Q1 P&L

Amount:NT\$ MN	2020 Q1		2019 Q4		QoQ	2019 Q1		YoY
	Amount	%	Amount	%	%	Amount	%	%
Net Sales	831	100.0%	834	100.0%	-0.4%	425	100.0%	95.5%
Gross Margin	246	29.6%	258	30.9%	-4.7%	161	37.9%	52.8%
Operating Expense	192	23.1%	200	24.0%	-4.0%	175	41.2%	9.7%
Operating Profit	54	6.5%	58	7.0%	-6.9%	-14	-3.3%	485.7%
Non-Op. Profits(Loss)	0	0.0%	-1	-0.1%		0	0.0%	
Net Income before Tax	54	6.5%	57	6.8%	-5.3%	-14	-3.3%	485.7%
Net Income aftere Tax	43	5.2%	44	5.3%	-2.3%	-11	-2.6%	490.9%
EPS	0.7		0.73			-0.18		



RichWave