



# **RichWave Technology Corp.**

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August 2019

# COMPANY OVERVIEW

SHANGHAI  
SHENZHEN  
SEONGNAM  
TAIPEI  
CHUPEI

SAN JOSE



Founded  
**Jan. 2004**



Listed in TSE  
**Nov. 2015**



Customers  
**350+**



Products  
**270+**

**Vision**



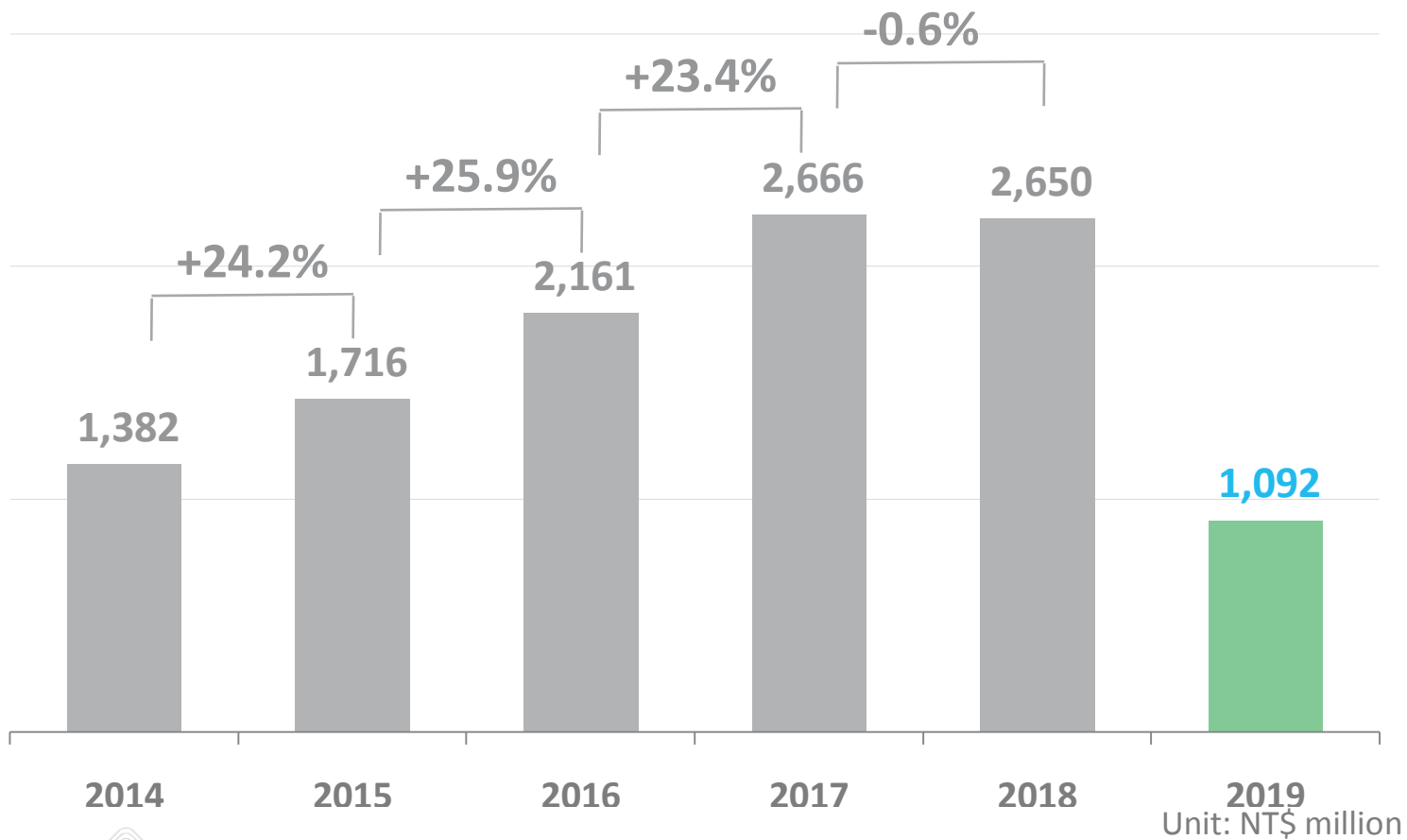
# **World RF IC Leader by Technology and Innovation**



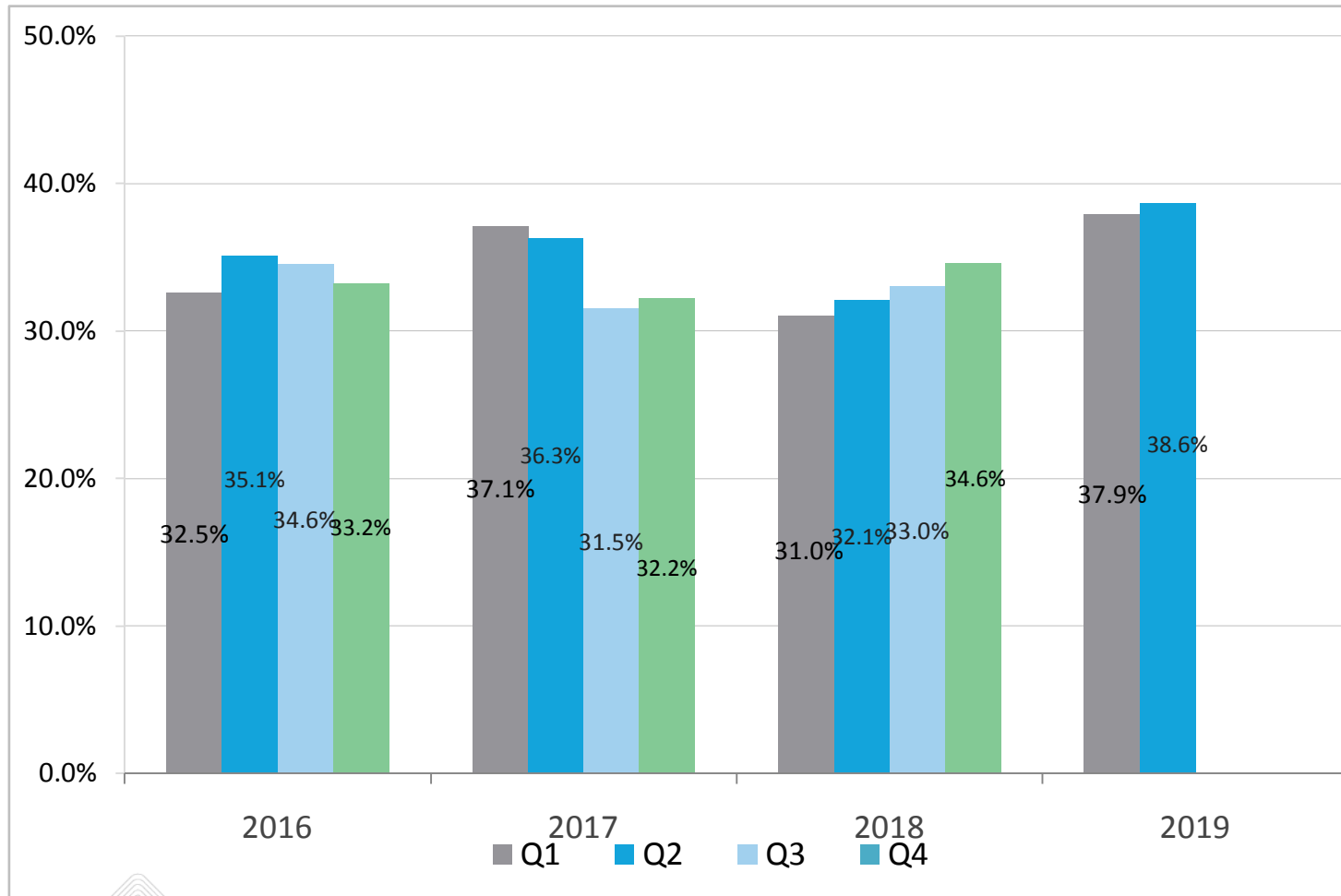
# 2019 Q2 P&L

Amount: NT\$ MN	2019 Q2		2019 Q1		QoQ	2018 Q2		YoY
	Amount	%	Amount	%	%	Amount	%	%
Net Sales	666	100.0%	425	100.0%	56.7%	712	100%	-6.5%
Gross Margin	257	38.6%	161	37.9%	59.6%	229	32.10%	12.2%
Operating Expense	178	26.7%	174	40.9%	2.3%	180	25.30%	-1.1%
Operating Profit	79	11.9%	-13	-3.0%	707.7%	49	6.80%	61.2%
Non-Op. Profits(Loss)	2	0.3%	-1	-0.2%	300.0%	12	1.70%	-83.3%
Net Income before Tax	81	12.2%	-14	-3.2%	678.6%	61	8.50%	32.8%
Net Income after Tax	61	9.2%	-11	-2.6%	654.5%	47	6.60%	29.8%
EPS	1.00		-0.18			0.86		

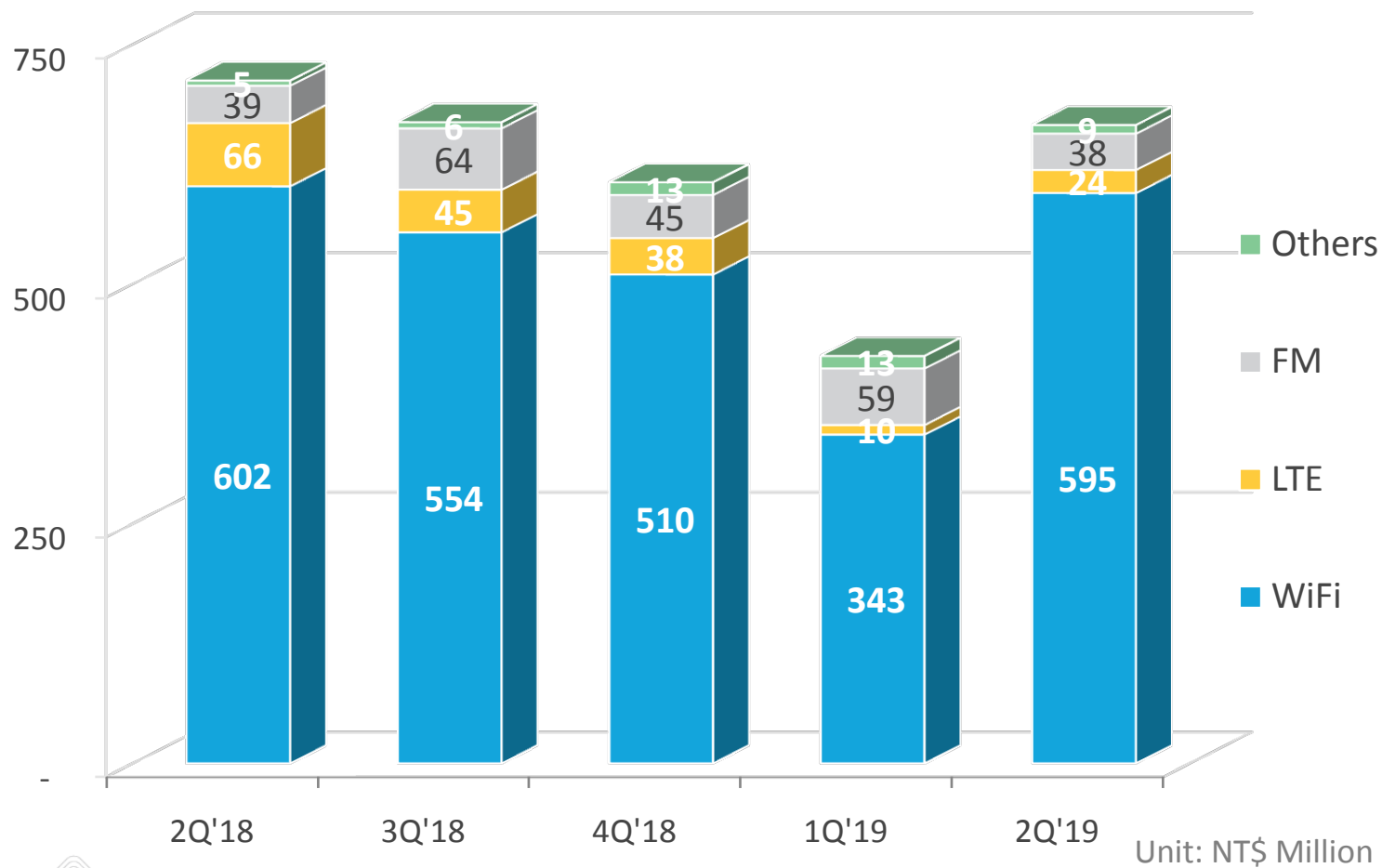
# Net Sales 2014-2019



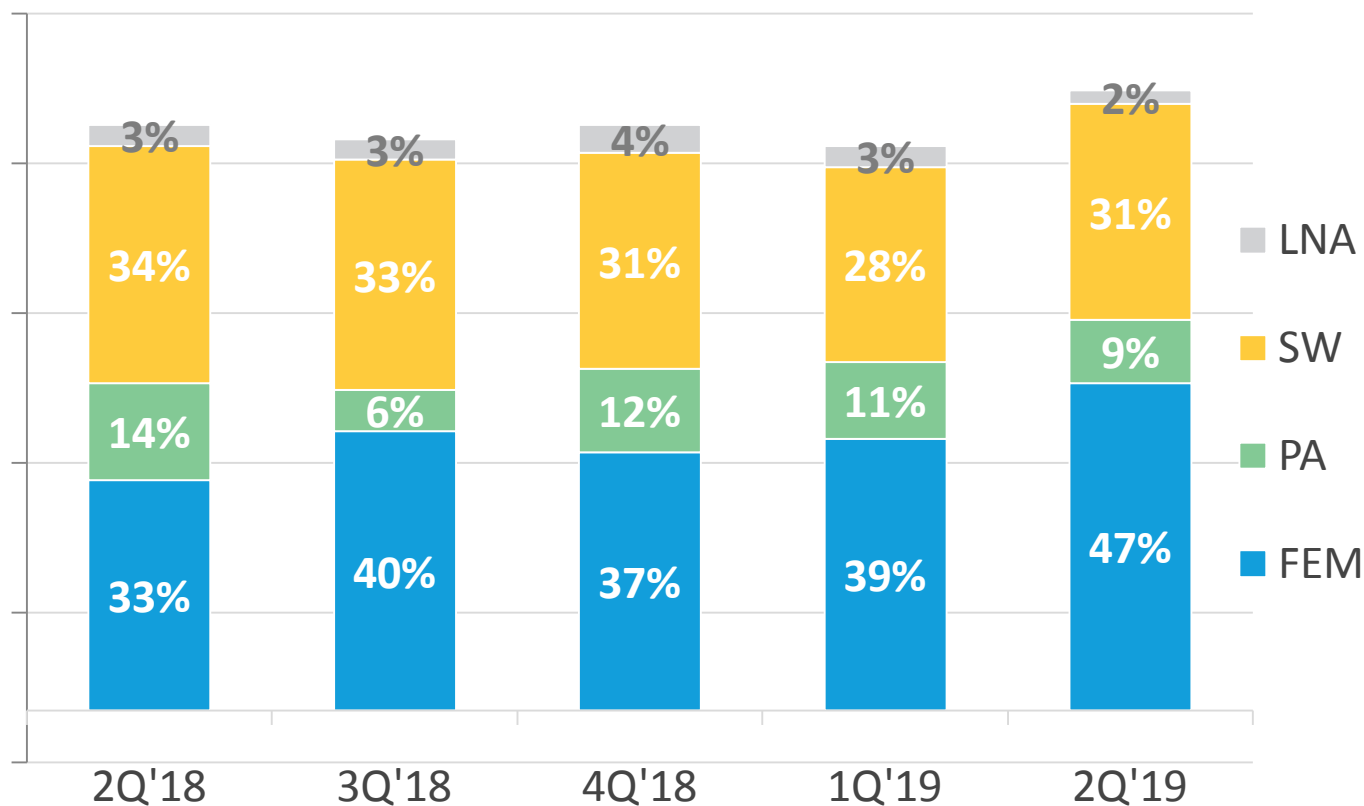
# Gross Margin Trend 2016-2019



# Revenue by Products



# High Integration WiFi FEM & High Power PA Gain Weighting





# Business Highlights – WiFi

- Start first shipment of 11ax FEMs for DSL gateway for Swedish telecom operator.
- Volume shipment of 11ac FEMs for EU routers for Technicolor.
- Volume shipment of WiFi switches for Nintendo Switch (gaming).
- Win 11ac FEMs design for 10G PON gateway for Sagemcom
- Win 11ac FEMs design for cable gateway for Ubee for US cable operator.
- Win 11ac FEMs design for GPON gateway for Switzerland telecom operator.
- Win 11ac FEMs design for home gateway & mesh router for India Reliance.
- Win 11ac FEMs design for WiFi repeater and gateway for Freebox.
- Win WiFi switches design for Amazon doorbell.
- Become Huawei approved vendor (AVL), and start shipment of 11ac FEMs for Huawei routers.



# Business Highlights – Mobile

- Win WiFi 11ac 5GHz FEM design for PAD/4G module:
  - Samsung PAD, Lenovo PAD, Quectel LTE module
- Win LTE LNA design for smart phone/4G module:
  - LG smart phone, OPPO smart phone, Quectel LTE module



**SAMSUNG**

**Lenovo**

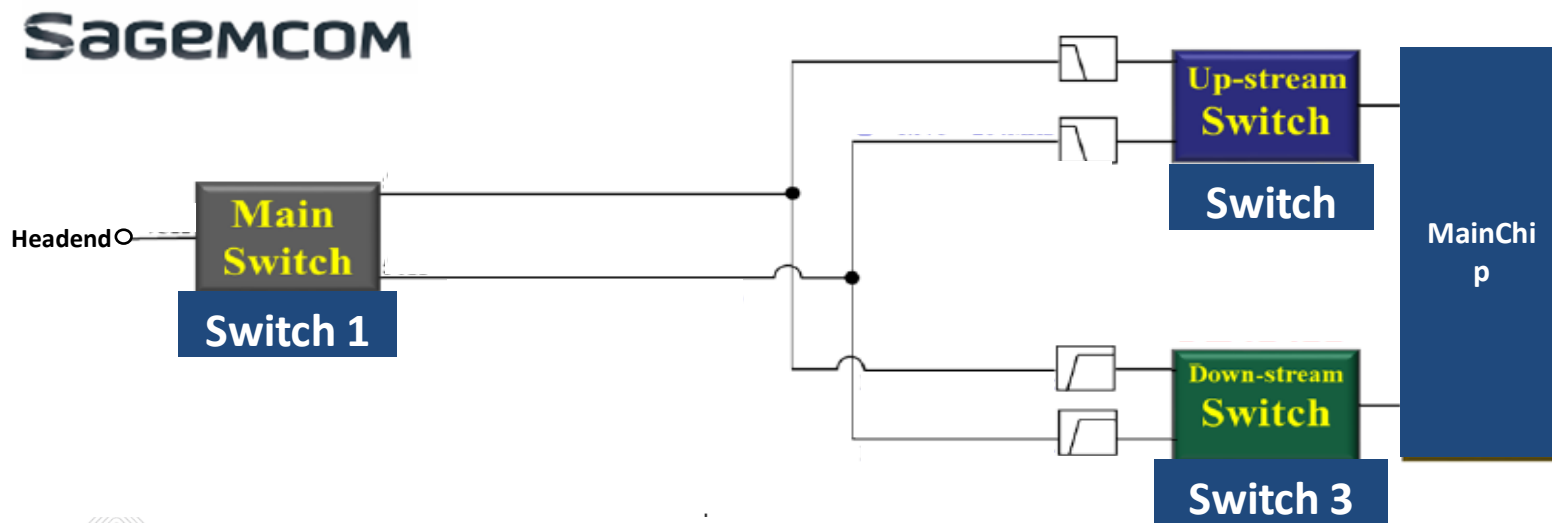
**QUECTEL**

**oppo**



# Business Highlights - Cable Switch

- Start first shipment of cable Docsis 3.1 switches to Sagemcom.
- Win cable Docsis 3.1 switches design for US cable operator.
- Win cable Docsis 3.1 switches design for EU cable operator.



# Business Highlights – FM

- Win design with our next generation FM on new main flagship phone models and middle-end smart phone models for Korea main smart phone brands.



# Business Highlights – Automotive

- Start shipment of 11ac FEMs for WiFi modules for automotive for GM
- Start shipment of switches for LTE modules for automotive telematics for Bosch



**BOSCH**





**RichWave**