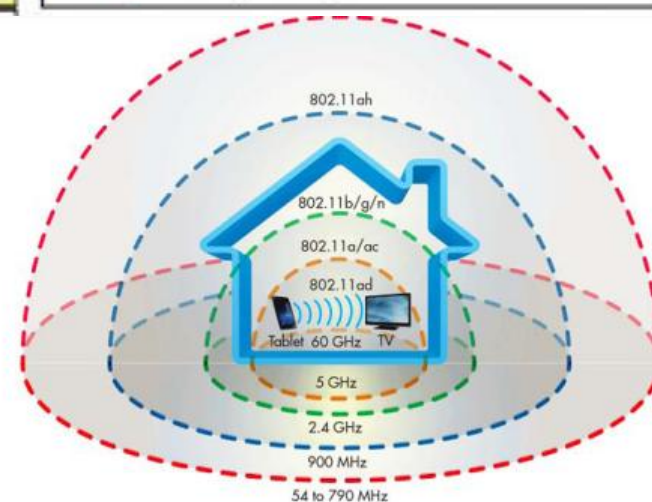
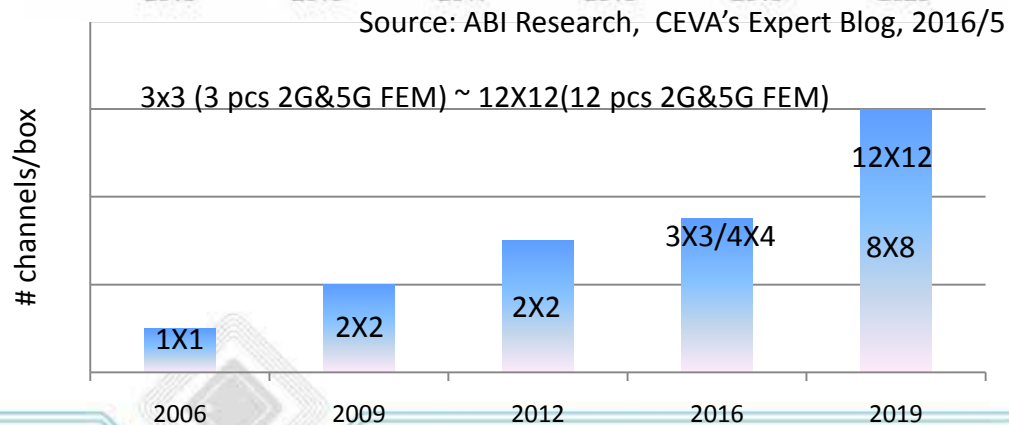
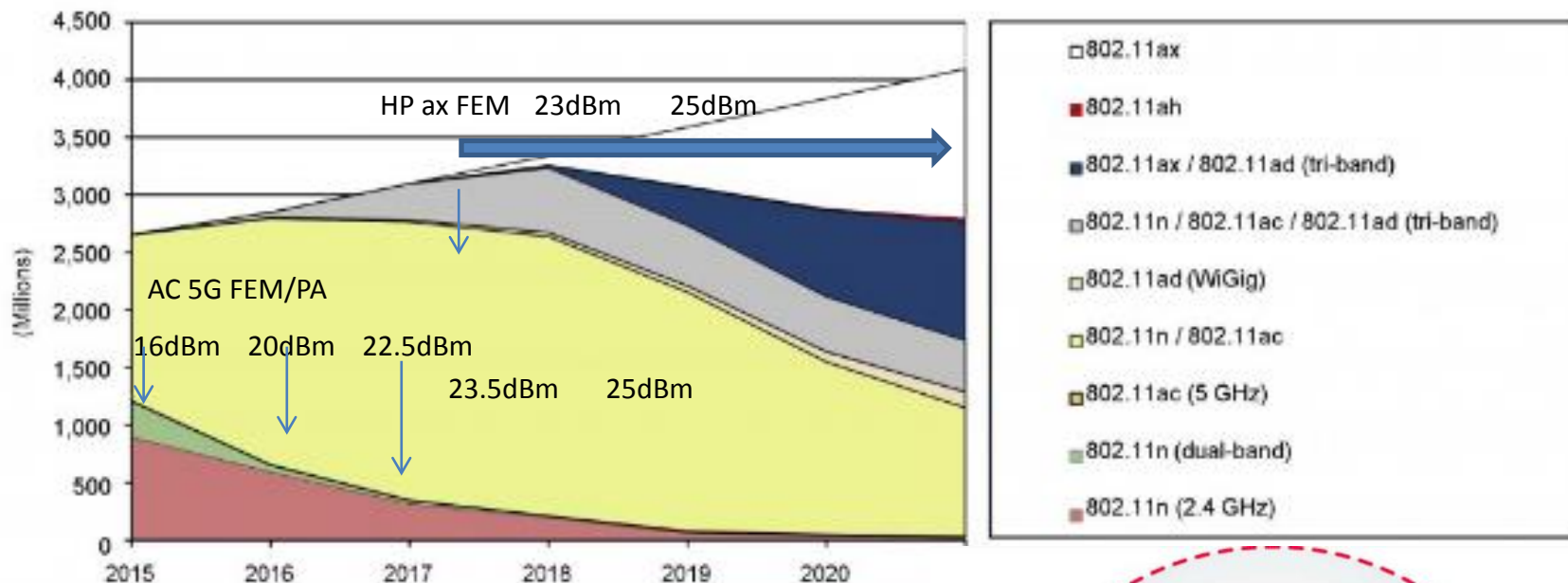


立積電子股份有限公司

2016年投資人簡報

民國105年12月

從11ac to 11ax WiFi 趨勢是走向高功率/高頻寬及低EVM



Source: Link Lab., 2015/8

產品效能是立積 WiFi 802.11ac的致勝關鍵

Output Power

H



Video Stream



Data Connected



Set-top box



Data Connected



IOT

5GHz FEM

Parameter	RichWave	Ref.
Pout @1.8% EVM, 11ac	22.5dBm	22.5dBm

2GHz FEM

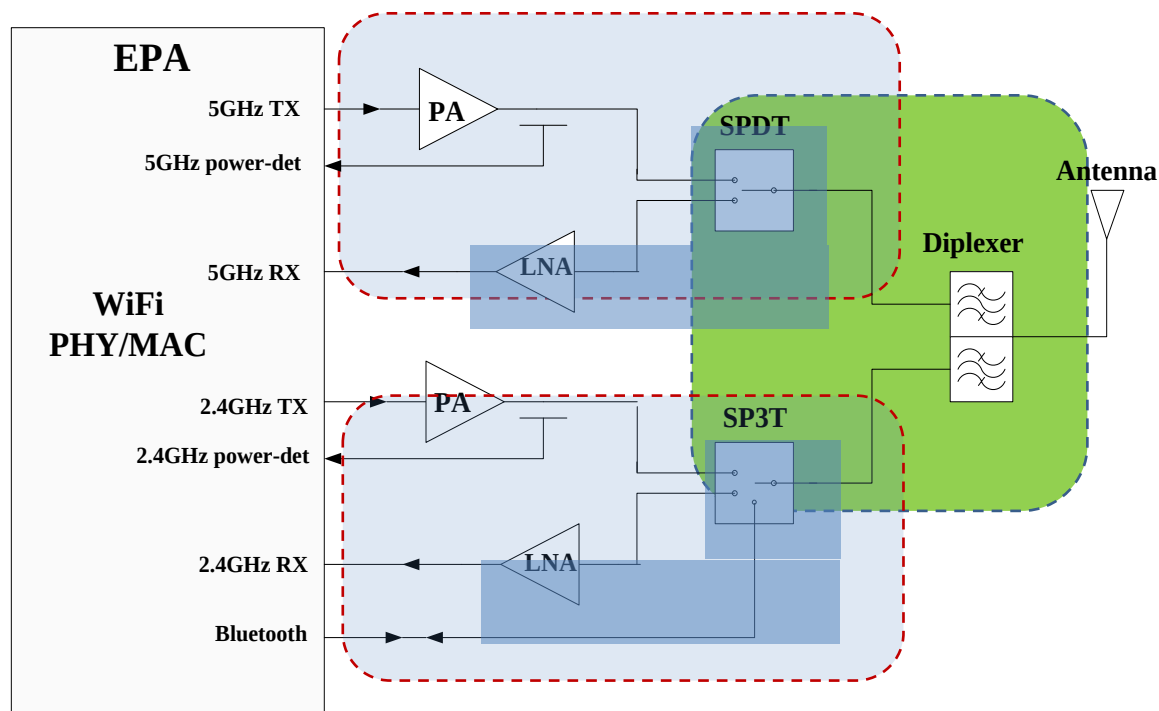
Parameter	RichWave	Ref.
Pout @3% EVM, 11ac	27dBm	26dBm

Parameter	RichWave	Ref.
Pout @1.8% EVM, 11ac	20dBm	19dBm

Parameter	RichWave	Ref.
Pout @3% EVM, 11ac	26dBm	26dBm

Parameter	RichWave	Ref.
Pout @1.8% EVM, 11ac	16dBm	16dBm

立積提供完整的802.11ac WiFi 解決方案



5GHz WiFi FEM for 11ac

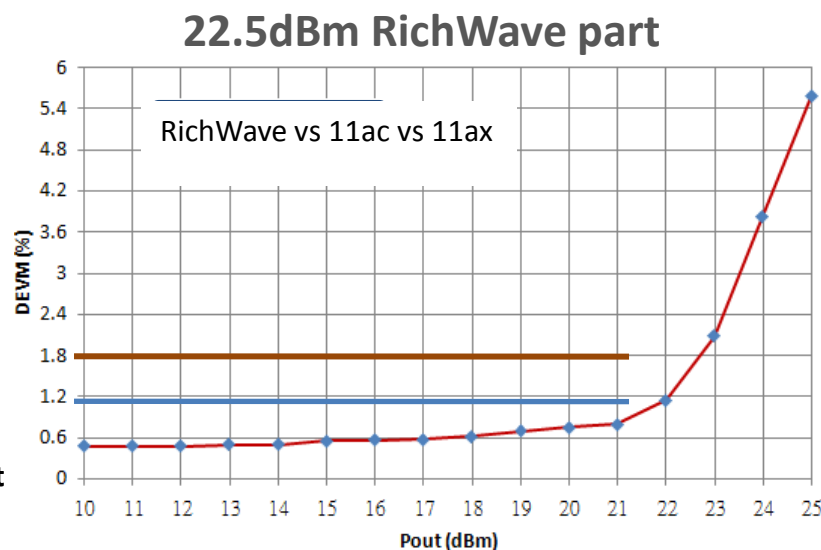
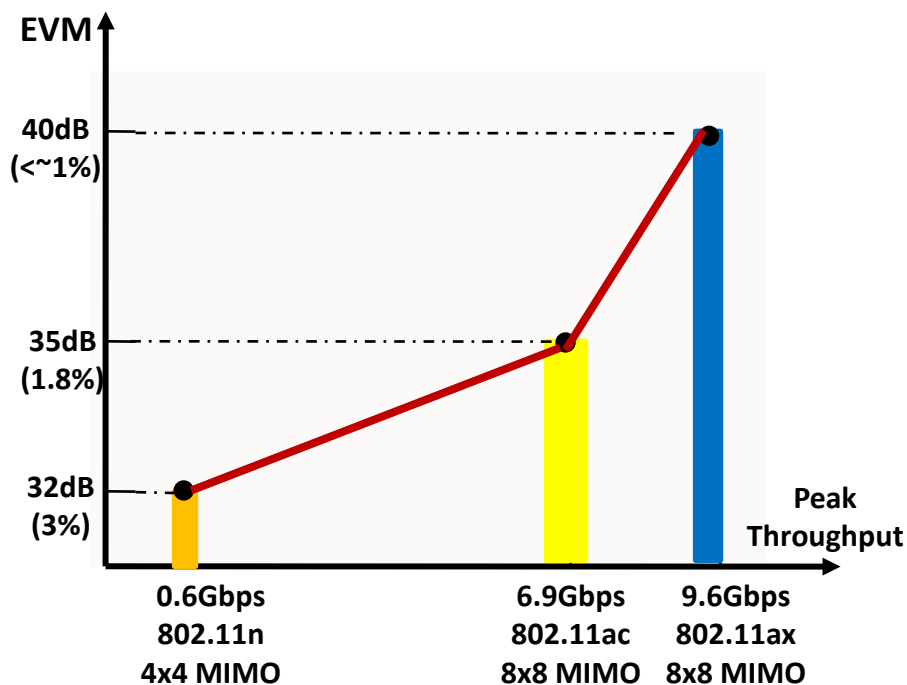
Antenna output	16dBm	20dBm	22.5dBm
FEM	V	V	(new)
PA	V	V	(new)
LNA	V	V	V
SW	V	V	V

2GHz WiFi FEM for 11ac and 11n

Antenna output	20dBm	23dBm	25dBm
FEM	V	(new)	(new)
PA	V	V	V
LNA	V	V	V
SW	V	V	V

為何客戶要採用立積的FEM/PA? =>致勝關鍵就是EVM!

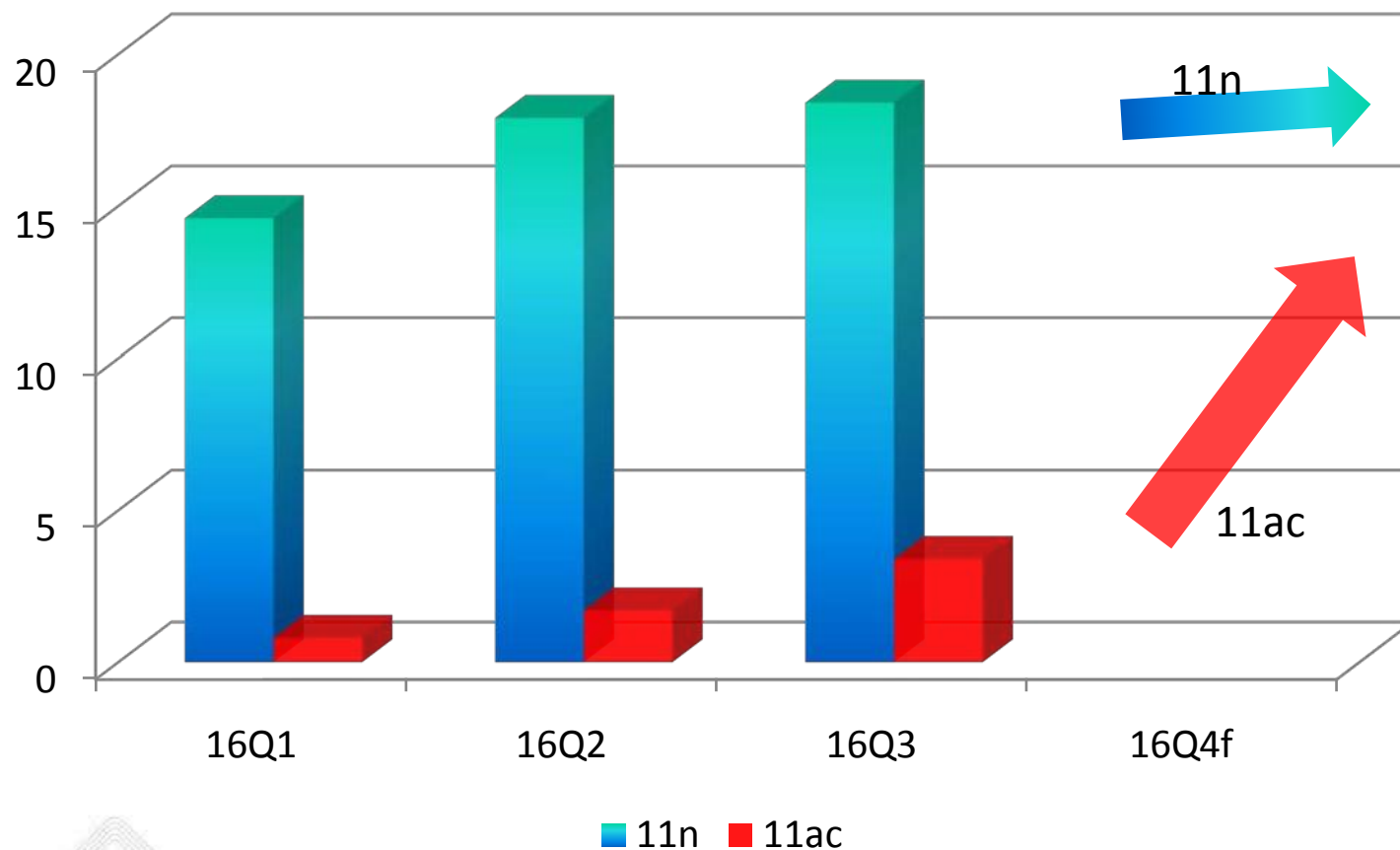
- 更低的 EVM → 更遠距離的接收及品質
- 同時也是 802.11ax 的基礎



EVM floor and EVM win

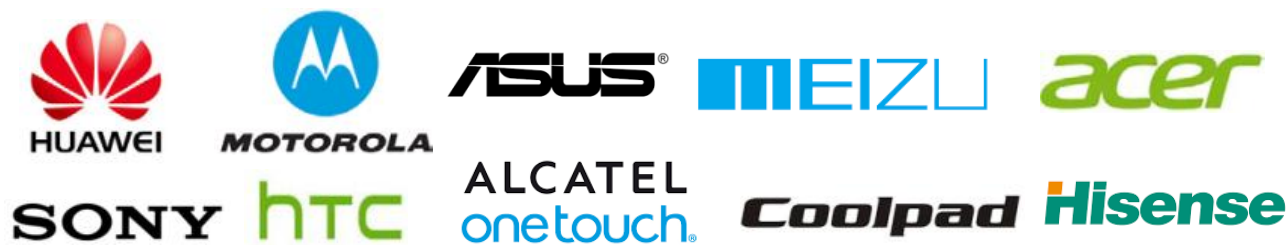
立積 11ac FEM/PA 產品開始放量

單位: 百萬顆

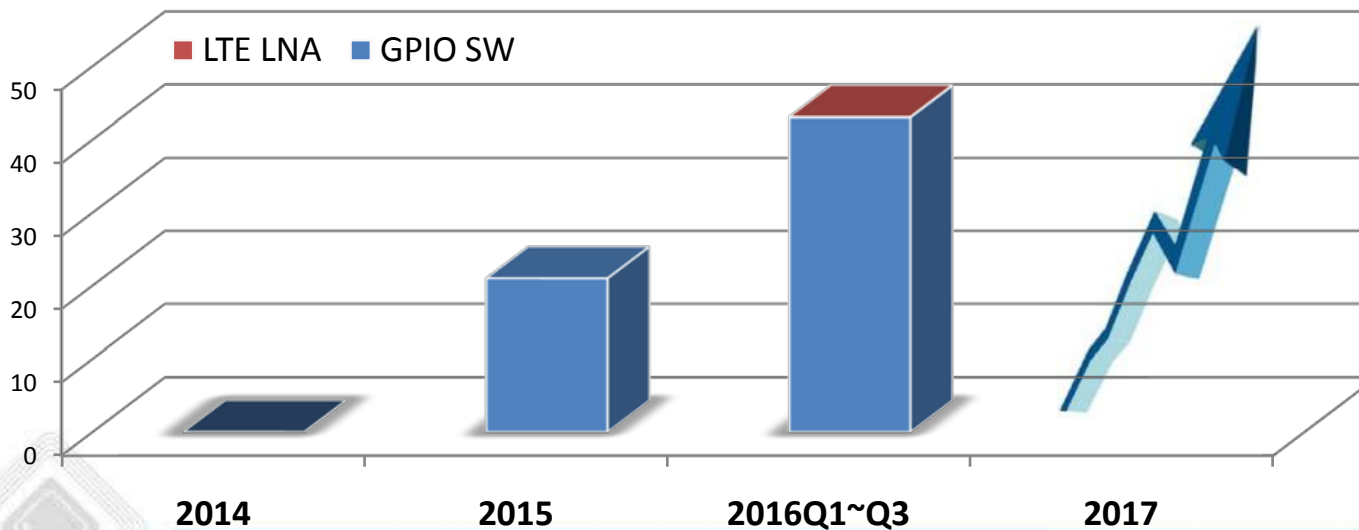


LTE 手機產品線

- GPIO 開關成功打入品牌及品牌ODM
- LTE LNA 自2016第三季開始小量出貨
- 2017 新產品: MiPi Switch, Antenna Tuner, Antenna Swapping Switch.



單位: 百萬顆

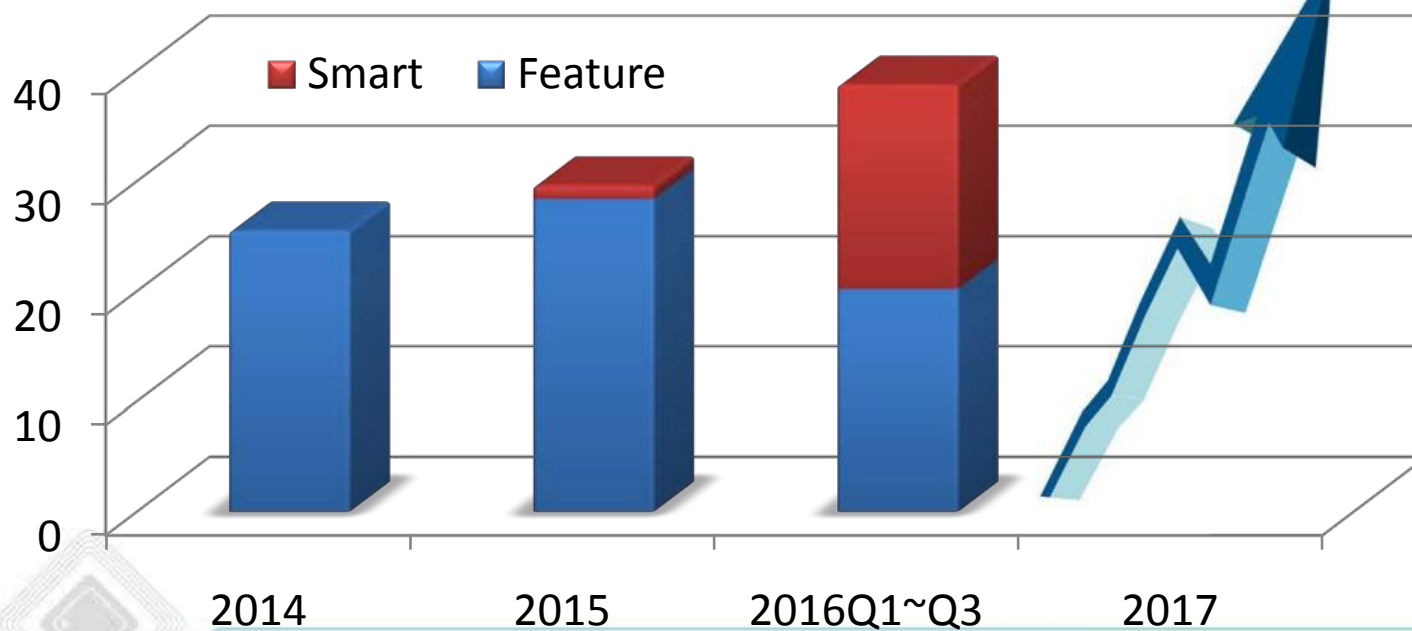


廣播收音機晶片

RTC6211N	RTC6213N
Feature Phone	Smart Phone

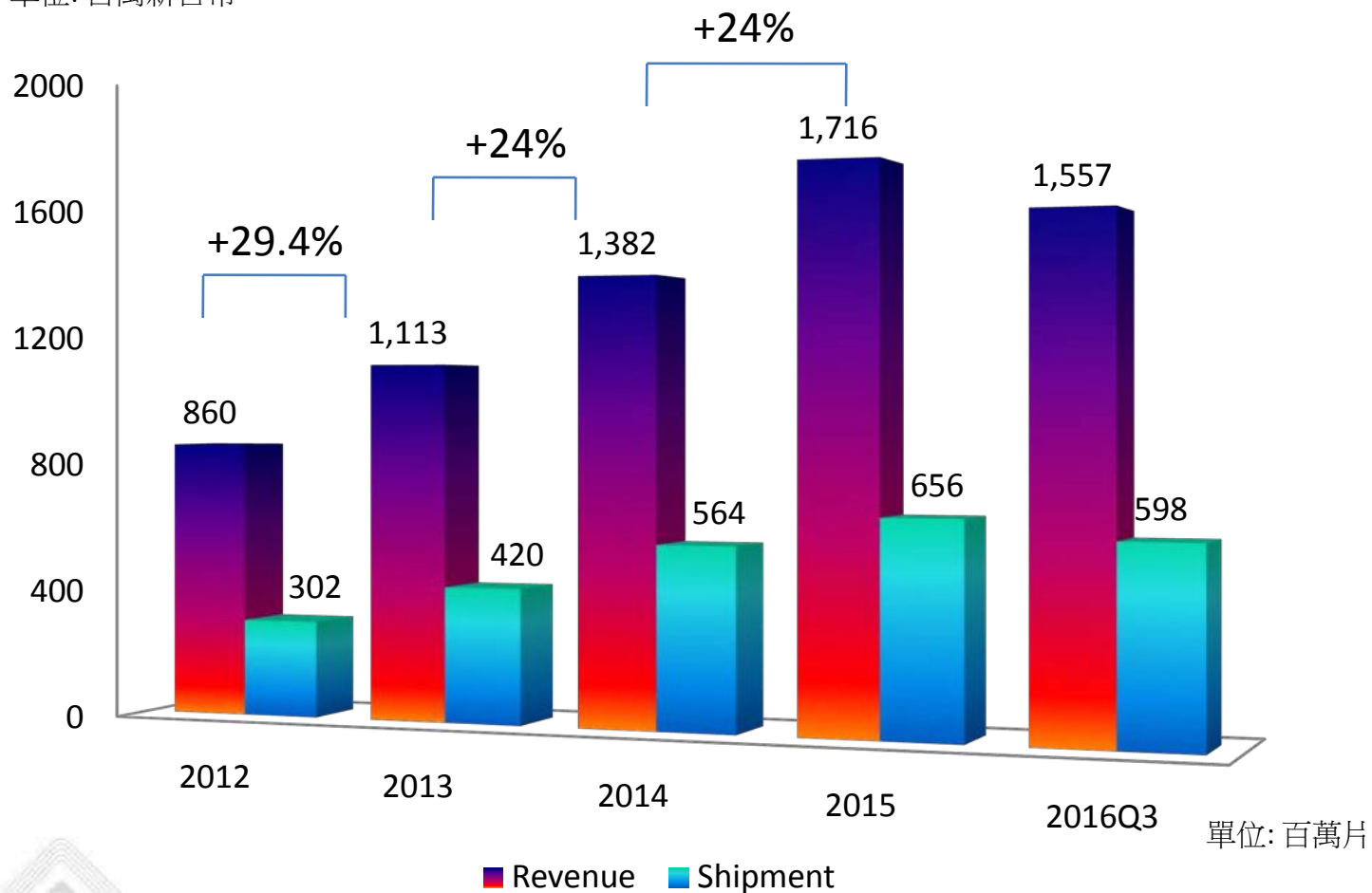


單位: 百萬顆



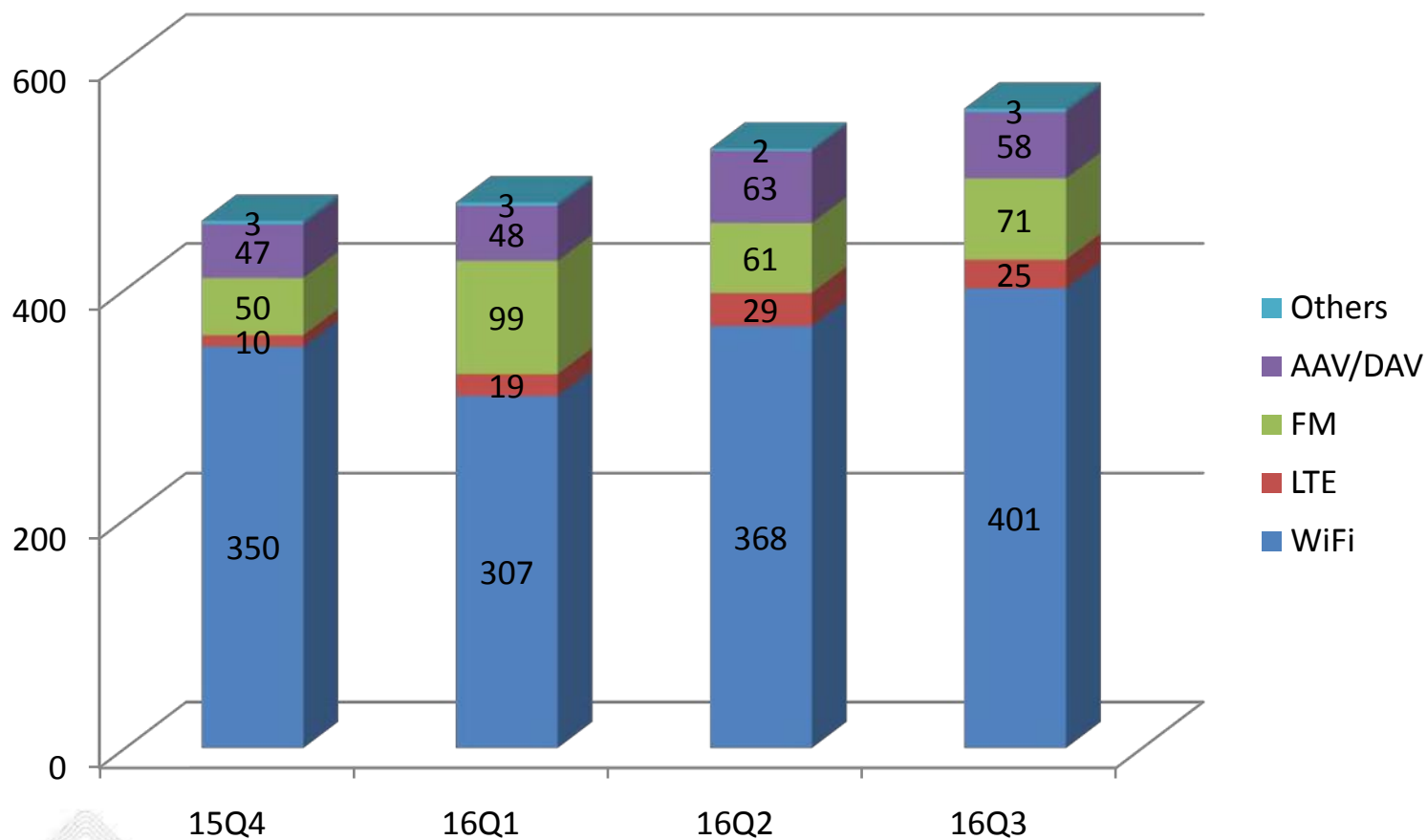
歷年營收與出貨量

單位: 百萬新台幣



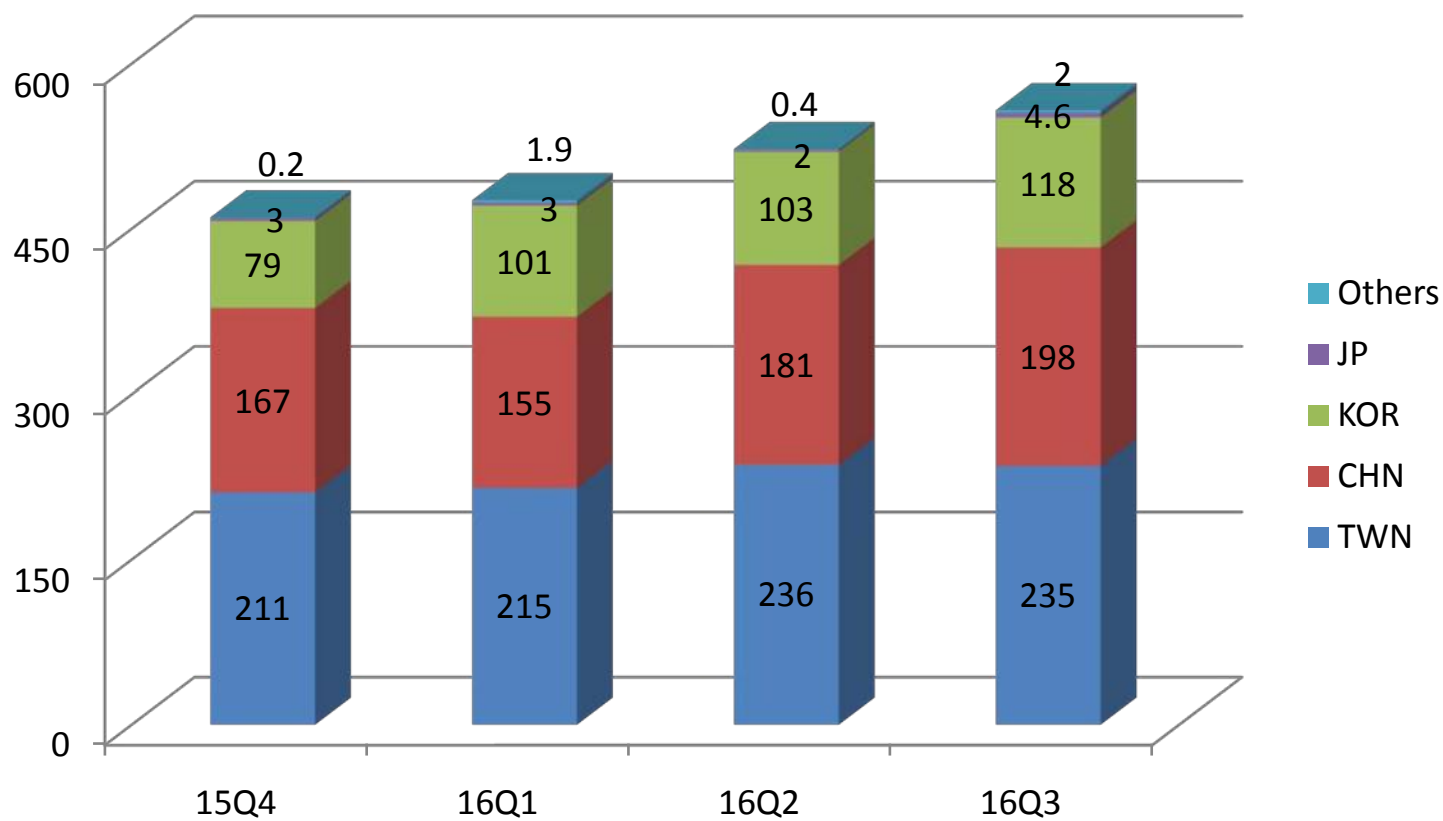
各產品線佔營收比重

單位: 百萬新台幣



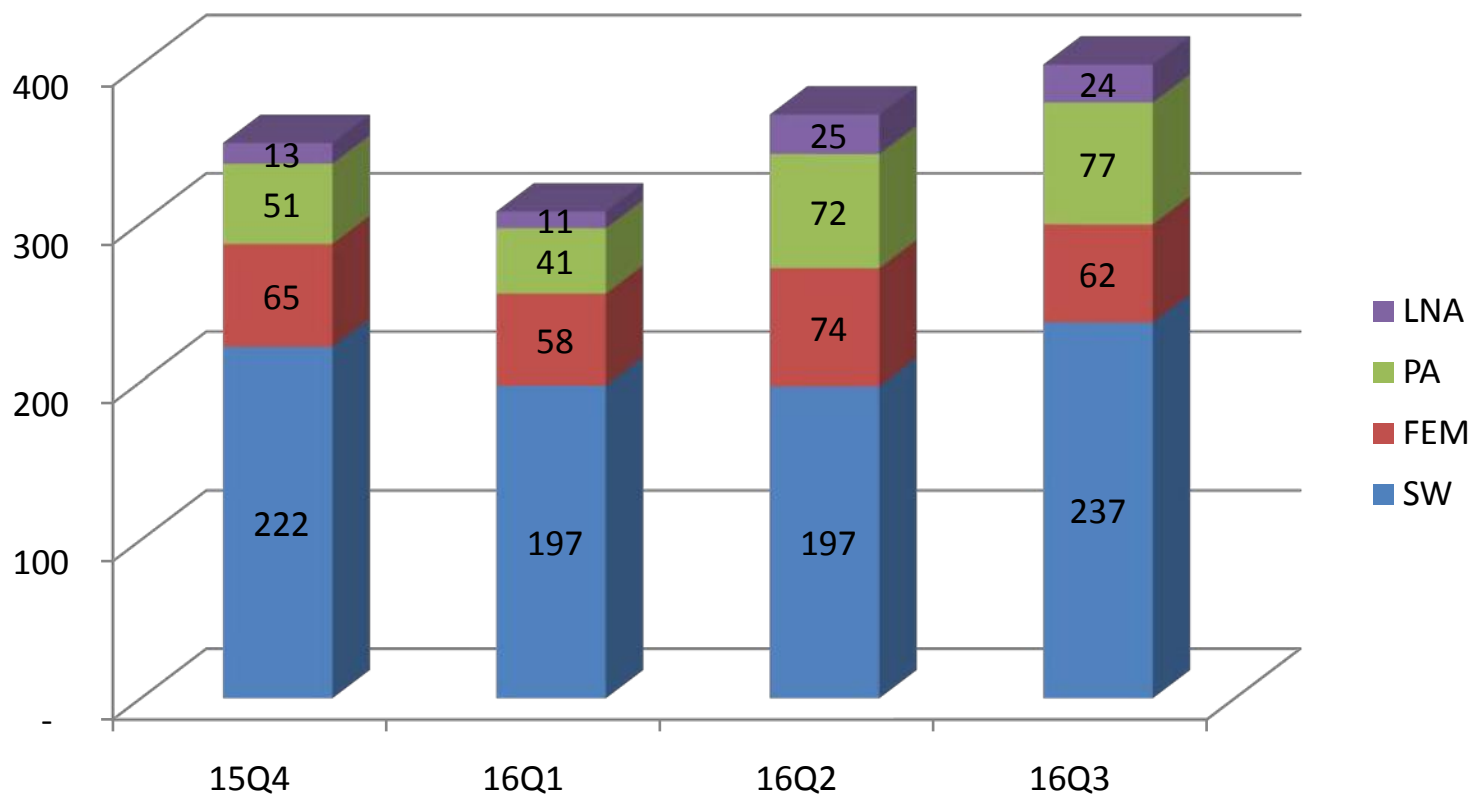
各地區佔營收比重

單位: 百萬新台幣

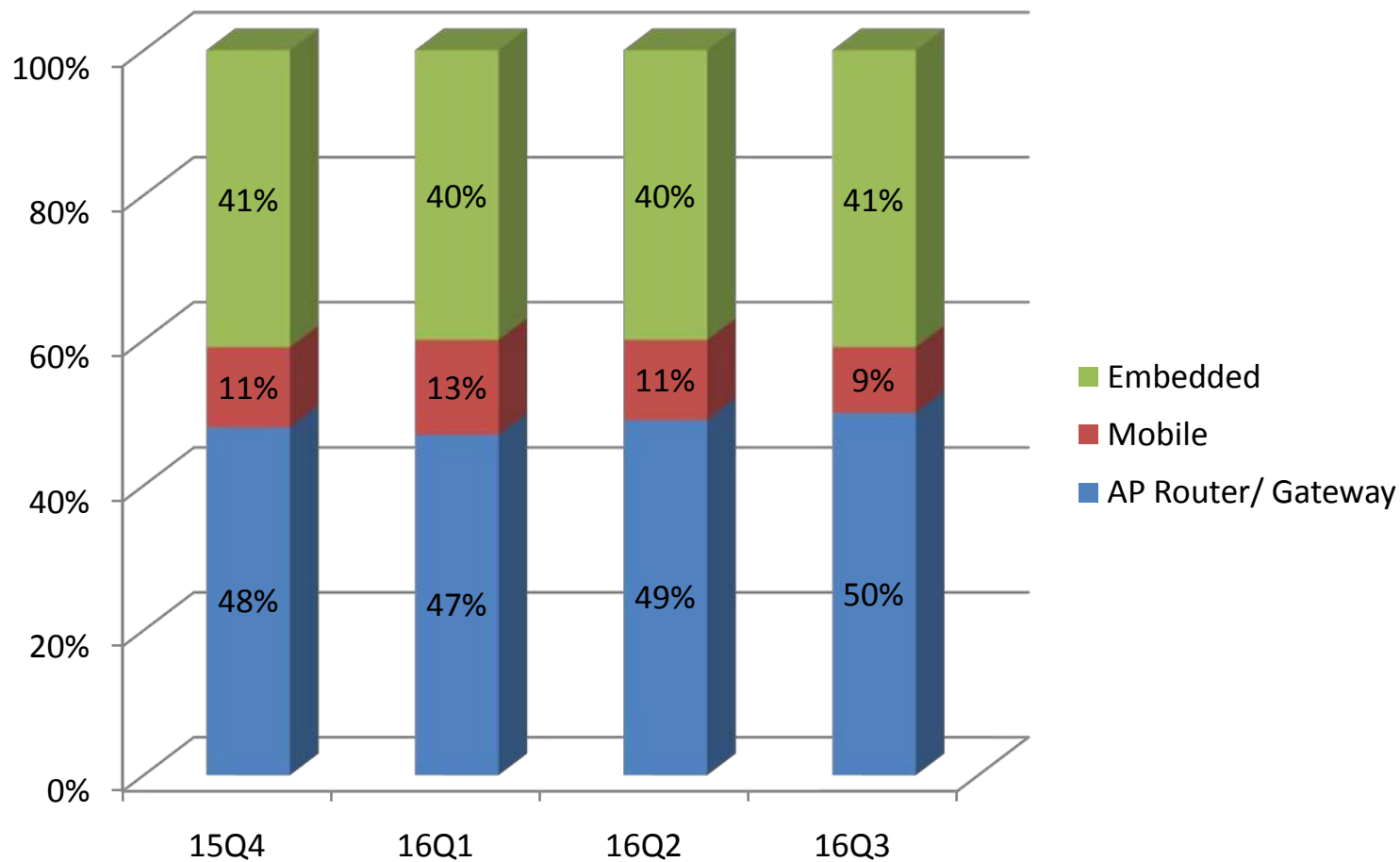


WiFi 產品占營收比重

單位: 百萬新台幣



WiFi 營收比重- 按應用分





RichWave