Qualcomm QTM527 mmWave Antenna Module

Briefing slides
2019 is the year of 5G
Global commercialization moving faster than 4G

Comparison of Year 1 announcements

4G
4 Operators launched
3 OEMs launched

5G
20+ Operators launched
20+ OEMs launching
The device ecosystem is delivering 5G
150+ 5G devices launched or in development

Qualcomm Snapdragon is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.
5G is a connectivity fabric for virtually everything
Announcing next generation...

QTM527 mmWave antenna module

The world’s First Fully Integrated extended-range mmWave Solution for 5G Fixed Wireless Access consumer premises equipment (CPE)
QTM527 mmWave antenna modules

The QTM527 mmWave antenna module expands the capabilities of the Snapdragon X55 5G Modem-RF System to deliver a comprehensive modem-to-antenna platform for flexible, cost-effective, high performance 5G mmWave customer-premises equipment (CPE) designs.

Extended Range
Expand high-speed internet access to rural, suburban and dense urban environments

Fully-integrated mmWave RF
Including transceiver, PMIC, RF front-end components, and a phased antenna array

Global Band Support
Support for up to 800 MHz of bandwidth in n257, n258, n260, and n261 5G NR mmWave bands

Improved consumer experience
Deliver 5G’s multi-gigabit speeds and ultra-low latency to a wider customer base within a large coverage footprint

1 3GPP band definition are n257 (26.5-29.5 GHz), n258 (24.25-27.5 GHz), n260 (37-40 GHz), n261 (27.5-28.35 GHz)
Coverage of up to **1.7 Km** distance from base station in rural area

Based on CPE height at 6m above ground, BW:400MHz, 7:1 TDD Config, light Foliage, and on 28Ghz
5G mmWave FWA: Urban & Dense Urban deployment

Coverage of up to 1.1 Km distance from base station in Urban area
A feasible use case for mmWave that provides expedited & low-cost deployment to replace fiber
Benefits

**OEMs**
- Enable OEMs to provide cost-effective 5G FWA CPE
- Accelerate time to launch and lower development effort for building 5G FWA CPEs at scale
- Increase OEM’s target customer base who can enjoy mmWave benefits within large-area coverage

**Operators**
- Accelerate rollout and deployment of 5G in urban, rural and suburban areas as it eliminates the need to lay cables and fibers.
- Help extend their mmWave coverage to indoor environment with existing infrastructure.
- Provides a means to deliver gigabit speeds to their users using the same mobile wireless network they’re deploying for phones and without the need to lay out fiber to every house.
- Provide deployment flexibility, cost-effectiveness, and Internet access performance comparable to fiber.

**Consumers**
- Leap into 5G, the new era of mobile devices and user experiences
- Access to faster and more reliable broadband services
- More choice as mobile operations even with a fixed infrastructure can participate in offering services.
- Quicker deployment and faster turn-on time - no need to lay out fibers and cable lines.
- A new cost-effective and flexible alternative for fixed Internet Access with the performance expected from current solutions.
Thank you