



## Extended-range mmWave Antenna Module, enabling motorized beam management.

The QTM567 mmWave Antenna Module is an extended-range 4x4 solution designed for 5G fixed wireless access (FWA) customer premises equipment (CPE). It allows mobile operators to offer high-performance, lower-cost fixed internet broadband services over their 5G network infrastructure by enabling modem-controlled motors for beam management. Paired with the Snapdragon® X75 5G Modem-RF System, the module delivers a comprehensive modem-to-antenna platform for 5G mmWave CPE designs.

The QTM567 supports Power Class 1 and Power Class 5, as well as Wide Scan Angle for excellent coverage. This module also supports Qualcomm® Dynamic Antenna Steering for the strongest signals and superior performance.

## Features

- Third-generation extended-range mmWave 4x4 antenna module
- Dynamic Antenna Steering technology
- Support for Wide Scan Angle
- Extensive carrier aggregation and dual connectivity support
- Global 5G mmWave band support, including n259
- Highly flexible configurations that support different power class requirements (Power Class 1 and Power Class 5)
- Integrated 5G NR radio transceiver, power management IC, RF front-end components, and phased antenna array
- Support for up to 1000MHz of bandwidth
- Up to 2x2 MIMO with dual-layer polarization in both downlink and uplink
- Support for beam forming, beam steering, and beam tracking for bi-directional mobile mmWave communication

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## Highlights

### Extended mmWave range and improved experience

The QTM567 brings advanced features and capabilities designed to enhance FWA range and performance. In doing so, operators have broader “last-mile” options across urban, suburban, and rural environments utilizing existing 5G network infrastructure.



### Accelerate self-installed 5G FWA CPEs

QTM567 supports Dynamic Antenna Steering technology, which, as a key element of the Qualcomm® 5G FWA Ultra Gen 3 Platform, enables it to dynamically rotate the mmWave Antenna Module, allowing it to receive the strongest signals and achieve the best performance. This will help operators and service providers reduce installation cost and accelerate the industry movement toward self-installed, plug-and-play fixed wireless access devices.



### Truly global 5G solution

Highly flexible configurations enable the QTM567 to be configured to support from 16 to 64 dual-polarization antenna elements, achieving up to 53 dBm of peak EIRP and complying with Power Class 1 and Power Class 5 devices. This means we’re enabling our customers to rapidly develop a diverse product portfolio that is compatible with the requirements of every major region around the world.



### Great deployment flexibility

The QTM567 mmWave Antenna Module offers excellent scanning coverage with its support of Wide Scan Angle, which provides great deployment flexibility for mmWave CPE devices.



## Specifications

<b>Cellular Modem-RF Specs</b>	800MHz bandwidth (mmWave), 8 carriers (mmWave), 2x2 MIMO (mmWave)
<b>Performance Enhancement Technologies</b>	Dual-layer polarization in downlink and uplink (mmWave), beam tracking (mmWave), beam steering (mmWave), beam forming (mmWave), Dynamic Antenna Steering Gen 2, Wide Scan Angle (mmWave)
<b>Cellular Technology</b>	5G NR, 5G mmWave