

Qualcomm  
Snapdragon  
**X62**

Qualcomm®  
mmWave Module

mmWave

RF  
Transceiver

RF Front-End

Sub-6 GHz

Qualcomm Snapdragon is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.

# Qualcomm® Snapdragon™ X62 5G Modem-RF System

Qualcomm Snapdragon X62 5G Modem-RF System hails from the world's first 3GPP Release 16 modem-RF family, designed with an upgradable architecture to rapidly commercialize 5G Release 16 and extend 5G in mobile broadband, fixed wireless, industrial IoT and 5G private network applications.

## Upgradable architecture and ultimate flexibility



Designed with an upgradeable architecture for rapid commercialization of the latest 3GPP Release 16 features into 5G mobile broadband, fixed wireless devices and industrial IoT applications. Snapdragon X62's expansive feature set, band support and spectrum aggregation capabilities offer tremendous 5G deployment flexibility to operators globally.

## Blazing fast with superior coverage



Snapdragon X62 supports the new Qualcomm® 545 mmWave Antenna Module, next-gen Qualcomm® Wideband Envelope Tracking and Qualcomm® AI-Enhanced Signal Boost to help achieve blazing-fast data speeds and coverage.

## Leading power efficiency



Combines the power efficiency benefits of a 4 nm process with new Release 16 power-saving features and a tightly integrated<sup>1</sup> modem-RF system, delivering superior power efficiency and all-day battery life.<sup>2</sup>

<sup>1</sup> OEMs have flexibility to choose RF components.

<sup>2</sup> Battery life varies significantly based on device, settings, usage, and other factors.

## Built to extend 5G into more application segments

- Mobile broadband – smartphones, tablets, PCs, mobile hotspots
- Fixed wireless – CPEs, home broadband, routers
- Industrial IoT

## Features

- 4.4 Gbps peak speeds
- 3GPP Release 16 support
- Upgradable architecture for rapid feature rollout
- 5G mmWave-sub6 aggregation
- Supports any key 5G band, mode or combination
- Advanced power-saving tech
  - Qualcomm® 5G PowerSave 2.0
  - Qualcomm® Wideband Envelope Tracking (7th gen)
  - Qualcomm® AI-Enhanced Signal Boost
- Qualcomm® Smart Transmit™ 2.0 technology

## Specifications

- 5G Chipset: Qualcomm® Snapdragon™ X62 Modem-RF System
- 5G Spectrum: mmWave-sub6 aggregation, sub-6 carrier aggregation (FDD-TDD, FDD-FDD, TDD-TDD), Dynamic Spectrum Sharing (DSS)
- 5G Modes: FDD, TDD, SA (standalone), NSA (non-standalone)
- 5G mmWave specs: 400 MHz bandwidth, 4 carriers, 2x2 MIMO
- 5G sub-6 GHz specs: 120 MHz bandwidth, 256-QAM, 4x4 MIMO
- 5G Peak Download Speed: 4.4 Gbps
- 5G SIM: Global 5G Multi-SIM support
- Cellular Technology: 5G NR, LTE, LAA, WCDMA (DB-DC-HSDPA), TD-SCDMA, CDMA 1x, GSM/EDGE, CBRS

Qualcomm Snapdragon X62 Modem-RF System, Qualcomm 5G PowerSave 2.0, Qualcomm AI-Enhanced Signal Boost, Qualcomm Smart Transmit 2.0, Qualcomm RF Gaming Mode Boost and Qualcomm Wideband Envelope Tracking are products of Qualcomm Technologies, Inc. and/or its subsidiaries.