SNAPDRAGON® X72 5G MODEM-RF SYSTEM

Snapdragon® X72 5G Modem-RF System belongs to the family of world's first modem-RF system ready for 5G Advanced – boosted with AI hardware acceleration and designed to drive the future of 5G in mobile and beyond. Powered by a new modem-to-antenna architecture, new software suite and several world's first features, Snapdragon X72 is built future-ready for breakthrough 5G performance.

AI hardware acceleration for superior 5G performance

Equipped with Qualcomm® 5G AI Processor Gen 2, Snapdragon® X72 belongs to the family of world's first Modem-RF Systems with a dedicated AI tensor accelerator. With 2.5X improved AI performance over Gen 1, Snapdragon X72 is designed for superior 5G performance.

5G Advanced-ready with next-gen modem-RF architecture

Snapdragon® X72 5G Modem-RF System is future-ready with an architecture designed to pioneer 5G Advanced in mobile and beyond.

Breakthrough 5G performance with unmatched spectrum flexibility

Snapdragon® X72 5G Modem-RF System further pushes the boundaries of 5G performance and spectrum flexibility with 3X carrier aggregation for sub-6 bands, and 5G uplink MIMO across TDD and FDD

Features

Qualcomm® 5G AI Suite Gen 2 includes:
- Sensor-modem-RF solution for mmWave beam management
- AI-enhanced channel state feedback (CSF)
- AI-enhanced antenna tuning
- AI-enhanced GNSS Location Gen 2

Qualcomm® 5G AI Processor Gen 2 with dedicated tensor hardware accelerator

Converged mmWave-sub6 Transceiver

3GPP Release 17 and Release 18 support

Qualcomm® QTM565 mmWave module

Qualcomm® Advanced Modem-RF Software Suite includes:
- Qualcomm® Smart Network Selection Gen 2
- Qualcomm® DSDA Gen 2 (Dual Data)
- Advanced Interference Cancelation

Qualcomm® 5G PowerSave Gen 4

Qualcomm® Smart Transmit™ Gen 4 technology with Snapdragon® Satellite support

Qualcomm® Power RF Efficiency Suite

Qualcomm® RF Downlink Boost

Specifications

5G Chipset: Snapdragon X72 Modem-RF System

5G Spectrum: mmWave-sub6 aggregation, sub-6 carrier aggregation (FDD-TDD, FDD-FDD, TDD-TDD), FDD-TDD support for uplink-CA, uplink MIMO, Dynamic Spectrum Sharing (DSS)

5G Modes: FDD, TDD, SA (standalone), NSA (non-standalone)

3X carrier aggregation in 5G sub-6GHz

5G Peak Download Speed: 4.4 Gbps

5G Peak Upload Speed: 2.6 Gbps

Up to 400 MHz mmWave or 200 MHz Sub-6 bandwidth

5G Dual-SIM Dual-Active support

Cellular Technology: 5G NR, LTE, LAA, WCDMA, GSM/ Edge, CBRS, Dynamic Spectrum Sharing (DSS), EN-DC, NR-DC, mmWave, sub-6 GHz

Snapdragon

87-27162-1 Rev. C