Snapdragon® X70 5G Modem-RF System

Snapdragon X70 introduces the world's 1st 5G AI Processor in a 5G Modem-RF System to enable breakthrough 5G performance with 10 Gigabit 5G, incredible upload speeds, low latency, coverage, and power efficiency. The unrivaled capabilities of our 5th generation modem-to-antenna 5G solution offer global operators ultimate flexibility to maximize spectrum resources for the best possible 5G.

AI to enable breakthrough real-world 5G performance

The Qualcomm 5G AI Suite in Snapdragon X70 harnesses the power of integrated AI to enable unmatched 5G speeds, coverage, latency, mobility, link robustness, and power efficiency.

Ultimate flexibility for global operators

Snapdragon X70's unrivaled feature-set offers global operators ultimate flexibility to maximize spectrum resources for deploying the best possible 5G for consumers, enterprises and the connected intelligent edge.

Unmatched data speeds, coverage, and latency

Snapdragon X70, our 5th generation modem-to-antenna 5G solution, inherits the unrivaled 10 Gigabit 5G peak download speed and packs in new, advanced capabilities such as 5G AI Processor, Qualcomm 5G Ultra-Low Latency Suite and 4X carrier aggregation to achieve unmatched data speeds, coverage, signal quality, and low latency.

Superior power efficiency

Snapdragon X70 5G Modem-RF System introduces the new, advanced Qualcomm 5G PowerSave Gen 3 technology suite, combined with a 4 nm baseband process a tightly integrated modem-RF system, delivering superior power efficiency and all-day battery life.[1]

Features

- Qualcomm® 5G AI Suite includes
  - AI-based channel state feedback and optimization
  - AI-based mmWave beam management
  - AI-based network selection
  - AI-based Signal Boost adaptive antenna tuning
- 3GPP Release 16 support with up to 60%[2] improved power efficiency
- Qualcomm® 5G Ultra-Low Latency Suite
- 5G mmWave-sub6 aggregation
- 5G mmWave Stand Alone
- mmWave multi-SIM
- Comprehensive 4x Carrier Aggregation (CA) support across FDD and TDD
- Switched uplink (FDD-TDD switching in SA mode)
- Advanced power-saving tech
  - Qualcomm® 5G PowerSave Gen 3
  - Qualcomm® QET7100 Wideband Envelope Tracking
- Voice over NR support

Specifications

- 5G Chipset: Snapdragon X70 Modem-RF System
- 5G Spectrum: mmWave-sub6 aggregation, sub-6 carrier aggregation (FDD-TDD, FDD-FDD, TDD-TDD), FDD-TDD support for uplink-CA, Dynamic Spectrum Sharing (DSS)
- 5G Modes: FDD, TDD, SA (standalone), NSA (non-standalone)
- Up to 8CC aggregation in mmWave, up to 4CC aggregation in 5G sub-6GHz
- 8 carriers (mmWave), 800 MHz bandwidth (mmWave), 300 MHz bandwidth (sub-6 GHz)
- 5G Peak Download Speed: 10 Gbps
- 5G Peak Upload Speed: 3.5 Gbps
- 5G global multiSIM including Dual-SIM Dual-Active support
- Cellular Technology: 5G NR, LTE, LAA, WCDMA, TD-SCDMA, GSM/ Edge, CBRS, Dynamic Spectrum Sharing (DSS), EN-DC, NR-DC, mmWave, sub-6 GHz

1 Battery life varies significantly based on device, settings, usage and other factors.

2 Compared to configurations with PowerSave features disabled.