

Qualcomm

Qualcomm® Immersive Home 216 Platform

Qualcomm Immersive Home 216 Platform is a dual-band, 6-stream, Wi-Fi 6 networking platform to power next generation home networking experiences.

The next generation successor to our groundbreaking mesh networking platforms, Qualcomm Immersive Home Platforms are designed with a novel modular architecture, advanced network packet processing, and next generation Wi-Fi 6 to deliver Gigabit-speed wireless performance to every room in the home with devices that fit in the palm of the hand.

A 4x4 Wi-Fi 6 configuration in the 5GHz band delivers enhanced performance, range, and/or client count for the Qualcomm Immersive Home 216 Platform.

Plus, advanced Qualcomm® Multi-User Traffic Management technologies balance and support all the Wi-Fi connected devices in a modern smart home, while high-performance Bluetooth integration supports seamless onboarding and integration of advanced applications leveraging either connectivity technology.

Highlights

High-Performance Wi-Fi 6

Experience up to 6 spatial streams simultaneously supporting our differentiated Wi-Fi 6 feature portfolio including Qualcomm Multi-User Traffic Management with algorithmic optimizations leveraging OFDMA in both the uplink and downlink across the 2.4 and 5GHz bands delivering corner-to-corner gigabit class connectivity.



Advanced Intelligence

The Qualcomm Immersive Home 216 Platform delivers our signature network intelligence for powerful local computing and connectivity coexistence, centralizing smart home interfaces like voice assistance and emergent technologies like RF sensing to finally deliver a truly immersive smart home experience.



Application Optimization

Utilizing innovative modular platform architecture, this platform is built to be small enough to go unnoticed, scalable in design to deploy densely for every size home, and powerful enough to support the demands of today's smart home network.





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Features

- Qualcomm Multi-User Traffic Management provides advanced scheduling algorithms and buffering with universal uplink data support.
- Qualcomm® Wi-Fi Security Suite offers the most comprehensive WPA3 implementation coupled with state-of-the-art embedded crypto accelerators designed to provide secure transactions across a full range of Wi-Fi data touchpoints.
- Carrier-grade enhancements with open API porting for multi-source development.
- Mesh Wi-Fi options include Qualcomm® Wi-Fi SON, the Wi-Fi Alliance's Wi-Fi CERTIFIED EasyMesh™ standard, and the OpenSync™ open-source software.
- Advanced powerful local computing using dual-core A53 processors paired with powerful network accelerators.

Specifications

CPU Clock Speed	1.0GHz
CPU Cores	Dual-core Cortex-A53 Arm
Wi-Fi Standards	Wi-Fi 6, Wi-Fi 5, 802.11a/b/g/n
Wi-Fi Spectral Bands	2.4GHz, 5GHz
Spatial Streams	6
Peak Speed	Up to 5.4 Gbps*
Wi-Fi Features	160MHz channel support, OFDMA, MU-MIMO, TxBF, TWT, Qualcomm Wi-Fi SON, Wi-Fi Alliance's Wi-Fi CERTIFIED EasyMesh™
Wi-Fi Security	WPA3 Personal, WPA3 Enterprise, WPA3 Enhanced Open, WPA3 Easy Connect, WPA2, WPS, 802.11i security, AES-CCMP, AES-GCMP, PRNG, TKIP, WAPI2, WEP
Flash	NAND, SPI NOR
Bluetooth	Bluetooth 5.1
Platform Extensions	4G/5G FWA

*Peak PHY rate

To learn more visit: [qualcomm.com](https://www.qualcomm.com)

Qualcomm Wi-Fi Security Suite and Qualcomm Wi-Fi SON are products of Qualcomm Technologies, Inc. and/or its subsidiaries.

