



Qualcomm Networking Pro 400 Platform

Cost-effective 4-stream Wi-Fi 6 networking platform ideal for densely congested infrastructure applications

The Qualcomm® Networking Pro 400 platform is a highly flexible and cost-effective Wi-Fi 6 (802.11ax) network solution, supporting 4 spatial streams of Wi-Fi 6 connectivity, and designed to meet the growing demands of increasingly crowded and dense Wi-Fi environments.

The Qualcomm Networking Pro 400 supports next-generation Wi-Fi 6 features like optimized multi-user scheduling of both uplink and downlink MU-MIMO and OFDMA across all spatial streams. It also supports 1024QAM, BSS coloring, and WPA3 security, all delivered on an architecture perfected to successfully associate and maintain connectivity for hundreds of client devices simultaneously.

The Qualcomm Networking Pro 400 also brings an improved CPU, to better enable advanced features and expand the connectivity capabilities with future updates.

Highlights

Superior Connectivity

Up to 4 spatial streams of Wi-Fi 6 connectivity across both 5 and 2.4 GHz bands, with multi-user scheduling across downlink and uplink MU-MIMO and OFDMA to simultaneously manage up to 1000 users.



Powerful Computing

A 64-bit quad-core CPU gives this platform computing power, and, when combined with our superior design architecture, offers additional capabilities for dynamic data processing and management.



Advanced Data Management

Our deep packet buffer capabilities allow for better data management in densely congested environments.



Powerful Networking Acceleration

Programmable network acceleration for complex and secure data transfer and Wi-Fi driver offload for all 4 streams to free up CPU subsystem.



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Features

- Up to 4 spatial streams for delivery of maximum Wi-Fi 6 capacity
- Multi-user scheduling architecture uses advanced algorithms and deep packet buffer for a deterministic approach to resource allocation
- Downlink/Uplink MU-MIMO supports 4 streams of Wi-Fi to simultaneously connect to MU-MIMO capable clients
- Downlink/Uplink OFDMA across all 4 spatial streams to provide efficient use of spectrum for small data packets supporting up to 8 users
- 1024 QAM support
- Support for up to 512 users per radio, flexible based on memory configuration
- Multi-Band Simultaneous Wi-Fi configurations for improved data rate efficiency across all bands of Wi-Fi

Specifications

CPU	
CPU Clock Speed:	Up to 1.0 GHz
CPU Cores:	4x ARM Cortex A53
Process	
Process Technology:	14 nm FinFET
Wi-Fi	
Wi-Fi Standards:	802.11ax, 802.11ac, 802.11a/b/g, 802.11n
Wi-Fi Spectral Bands:	2.4 GHz, 5 GHz
Spatial Streams:	Up to 4
Peak speed:	1.7 Gbps
Wi-Fi Features:	1024 QAM, Advanced QoS, MU-MIMO, OFDMA, Uplink scheduling, TxBF, Qualcomm® Wi-Fi SON
Security Support	
Wi-Fi Security:	WPA3, WPA2, WPS, 802.11i security, AES-CCMP, AES-GCMP, PRNG, TKIP, WAPI, WEP
Memory	
Flash:	eMMC, NAND, Serial NOR
Memory Type:	DDR3L, DDR4
Interface	
platform extensions:	Bluetooth
Supported Interfaces:	PCIe 3.0, PTA Coex, I ² S, I ² C, Ethernet, PCIe 2.0, PCM SD/eMMC, SDIO, SPI, UART, USB 3.0
Package	
Package Type:	FCBGA
Package Size:	18.1 x 18.1 mm
Part Number:	IPQ6010, IPQ6028

For additional Qualcomm product information go to:
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