

MARVELL® 88W9068 8x8 802.11ax Wireless LAN SoC

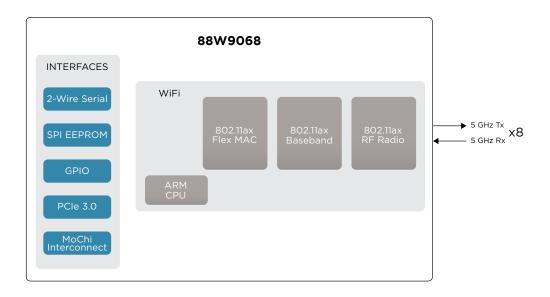
Providing capacity and coverage needed for High Efficiency Wireless Platforms

PRODUCT OVERVIEW

The 88W9068 is the next evolution of our industry-leading Wi-Fi access solutions that have enabled generations of award-winning platforms. Drawing on the strength of our proven implicit and explicit beamforming technologies, our full MU-MIMO and OFDMA solutions help increase capacity in both directions. This allows for overall improved network utilization while meeting the growing demands of user applications.

With an 8x8 configuration, the 88W9068 supports a peak data rate of 4.8Gbps making it an integral part of next generation enterprise access points, broadband gateways and fixed wireless solutions. As an added advantage, the device's flexible architecture guarantees 802.11ax standard compliance.

BLOCK DIAGRAM



Marvell 88W9068

KEY FEATURES AND BENEFITS

FEATURES	BENEFITS
Wi-Fi	 IEEE 802.11ax, 802.11ac Wave 2, 802.11a/n 20/40/80/ 160(80+80) MHz channel bandwidths 4.8Gbps peak data rate Implicit and explicit beamforming
802.11ax	 Downlink OFDMA and MU-MIMO Uplink OFDMA and MU-MIMO 1024 QAM Spatial re-use Range extension DCM
Flex MAC	 Adaptable architecture for 802.11ax standard evolution Management of high number of traffic queues Advanced scheduling
Dedicated In-Service Monitoring	Concurrent spectrum scanning Zero wait DFS
Precision Location	Distance: within 1 meter Angle: within 10 degrees
Host interfaces	MCi (4-Lane) PCle 3.0 (2-Lane)

TARGET APPLICATIONS

- Enterprise and retail access points
- Broadband gateway
- Fixed wireless services

