

Product Brief



High-performance Wi-Fi

- Quad-stream spatial multiplexing along with support for 4K QAM modulation rates and 320 MHz channel bandwidths more than doubles the maximum Wi-Fi peak speed achievable over current generation Wi-Fi 6 and 6E solutions.

Multi-radio/Multi-channel Link Operation

- Multi-channel link support makes real-time decisions to provide a high throughput, low latency, and highly reliable connection for your bandwidth intensive, latency sensitive applications.

Multi-user Technologies

- Support for MU-MIMO and OFDMA technologies in both uplink and downlink directions to allow for high-bandwidth concurrent multi-user data transfer.

BCM67263 & BCM6726

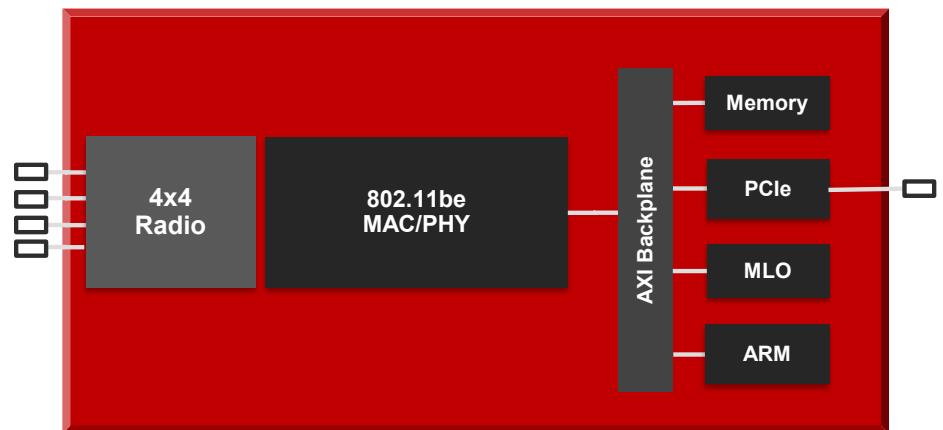
Next Generation of Wi-Fi 7 (802.11be) Access Point Devices

Overview

The Broadcom® BCM67263 and BCM6726 are the world's first 4x4 Wi-Fi 7 MAC/PHY/Radio solutions that enable a new generation of ultra-fast access points, routers, and extenders.

With support for Multi-Link Operation (MLO), 320 MHz channel bandwidths, and 4K QAM modulation, Wi-Fi 7 sets new performance benchmarks in high throughput, low latency, and high reliability needed to drive next-generation consumer applications in the home.

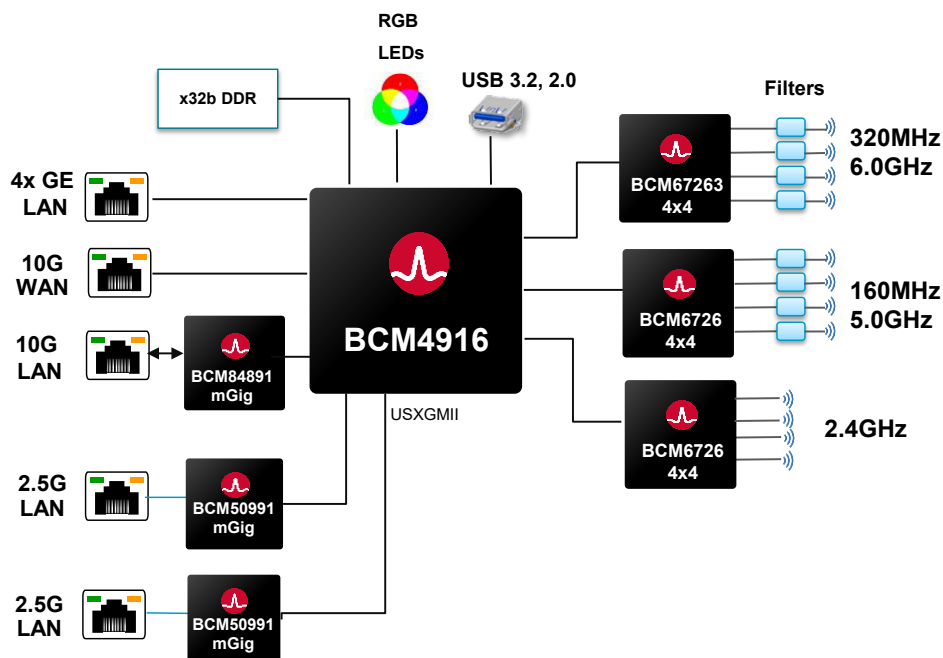
The BCM67263 device supports 320 MHz channel bandwidth in the 6 GHz band, while the BCM6726 device can operate in 2.4 GHz, 5 GHz, and 6 GHz bands selectively up to 160 MHz channel bandwidth.



BCM67263 (320 MHz: 6 GHz)

BCM6726 (160 MHz: 2.4 GHz, 5 GHz, or 6 GHz)

Typical Wi-Fi 7 Access Point Block Diagram



BCM67263 & BCM6726 Specifications

Parameter	Details
Wi-Fi Standards	IEEE 802.11be (Wi-Fi 7) Release 1.0 compliant IEEE 802.11ax (Wi-Fi 6 & 6E) compliant IEEE 802.11 a/b/g/n/ac
Spatial Streams	Quad-stream 4x4
Spectral Bands	2.4 GHz 5 GHz 6 GHz
Highest Modulation Rate	4K-QAM
Channel Bandwidths	20/40/80/160/320 MHz
Wi-Fi Peak Speeds	Maximum PHY rate of 11.5 Gbps with 320 MHz bandwidth
Multi-Link Operation (MLO)	Supported on all bands
OFDMA	Supported in both uplink and downlink direction
MU-MIMO	Supported in both uplink and downlink direction
Wireless Security	Comprehensive wireless network security support that includes WPA, WPA2, WPA3 (with 192-bit Suite B encryption), AES encryption/decryption, TKIP and IEEE 802.1X support
Operating Temperature	0°C to 70°C (commercial temperature)

Ordering Information

Part Number	Description
BCM67263	4x4 802.11be (Wi-Fi 7) up to 320 MHz bandwidth (6 GHz)
BCM6726	4x4 802.11be (Wi-Fi 7) up to 160 MHz bandwidth (2.4 GHz, 5 GHz, and 6 GHz)