



Broadcom Accelerates Multi-Gig Broadband with Optimized 10G PON and Wi-Fi 8 Solutions for Mass Market

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PALO ALTO, Calif., April 30, 2026 (GLOBE NEWSWIRE) -- Broadcom Inc. (NASDAQ: AVGO), a global technology leader that designs, develops, and supplies semiconductor and infrastructure software solutions, today announced its fourth wave of Wi-Fi 8 chips and an optimized 10G PON chip, solidifying its broadband industry leadership by extending the benefits of IEEE 802.11bn for service providers in hyper-competitive average revenue per user (ARPU) constrained broadband markets. By combining 10G PON with Wi-Fi 8, operators can deliver modern, fiber-based connectivity at scale, providing a technically robust and economically viable path to migrate from legacy copper and cable technologies.

Following the successful launch of its flagship residential and enterprise platforms, this latest expansion provides a value-focused residential Wi-Fi 8 and 10G PON gateway to accelerate mass market transition to the latest Wi-Fi generation. End users have an insatiable appetite for reliable wireless broadband. Broadcom's highly optimized design enables OEMs and service providers to deliver premium Wi-Fi 8 features, which lead to improved reliability, higher capacity, lower latency, and higher throughput—all with a cost structure traditionally reserved for legacy technologies. The high-bandwidth 10G PON interface complements the Wi-Fi 8 offerings and provides the necessary backhaul foundation to support consistent multi-gigabit performance across the most hyper-competitive service provider markets.

At the heart of this announcement are three new products engineered to balance performance with massive scalability:

BCM68565 - Optimized PON Gateway SoC

The BCM68565 balances overall platform performance with system-level optimizations spanning the Broadcom Wi-Fi 8 radios and PON gateway SoC to provide fiber-based broadband operators with the ideal solution, optimizing power, performance and features for mass-market deployments.

Key features include:

- Integrated 10-Gbps Fiber WAN interface supporting XGSPON, GPON, and Active Ethernet modes
- High-performance CPU complex with support for open source middleware such as RDK and prplWare
- Dedicated network processing engine freeing the CPU complex for operator-specific applications and utilities
- Integrated multi-gigabit and gigabit Ethernet PHYs
- Versatile memory controller supporting DDR4, LPDDR4, DDR5, and LPDDR5
- Best-in-class security with dedicated security processor

BCM67142 & BCM67192 - Highly Integrated Dual-Band Wi-Fi 8 Radio

The BCM67142 and BCM67192 build on the BCM6714 and BCM6719 respectively and integrate a highly efficient hardware offload engine that leverages the host CPU in the BCM68565 to balance performance and system costs. Both chips integrate the 2.4-GHz and 5-GHz radios into a single piece of silicon to drive a smaller footprint and achieve significant savings in BOM costs.

Key features include:

- Integrated multi-chain 2.4-GHz and 5-GHz functionality, simplifying system design and lowering cost
- On-chip 2.4-GHz power amplifiers (PAs) for reduced external components and improved RF efficiency
- Highly efficient integrated hardware offload engine reduces loading on the host CPU
- Advanced eco-modes and power optimization for ultra-low energy consumption
- Third-generation digital pre-distortion reduces peak power by 25%

"With our latest Wi-Fi 8 and PON products, Broadcom is making 'Ultra-High Reliability' accessible in hyper-competitive broadband markets," said Mark Gonikberg, senior vice president and general manager of Broadcom's Wireless and Broadband Communications Division. "The highly-optimized, single-chip dual-band radios and a cost-optimized PON SoC catalyze the adoption of Wi-Fi 8 in high-volume markets, ensuring faster, more reliable and affordable wireless broadband for the global consumer."

Industry-Leading Integration and Performance

This architectural breakthrough introduces a new level of efficiency by optimizing the CPU and memory resources between the broadband SoC and Wi-Fi chip. In addition, the integration of 2.4-GHz and 5-GHz Wi-Fi radios significantly reduces the bill of materials, simplifies board design, and lowers power consumption – ideal for delivering Wi-Fi 8 to hyper-competitive broadband markets.

As a result, fiber gateway platforms based on the BCM68565, BCM67142, and BCM67192 solutions accelerate the adoption of Wi-Fi 8 globally and raise the bar for service providers in competitive broadband markets.

Availability

Broadcom is currently sampling the [BCM68565](#), [BCM67142](#), and [BCM67192](#) to early access customers and partners. For more information on Broadcom's Wi-Fi 8, please visit www.broadcom.com/wifi8.

About Broadcom

Broadcom Inc. (NASDAQ: AVGO) is a technology leader that designs, develops, and supplies semiconductors and infrastructure software for global organizations' complex, mission-critical needs. We combine long-term R&D investment with superb execution to deliver the best technology at scale. Broadcom is a Delaware corporation headquartered in Palo Alto, CA. For more information, visit www.broadcom.com.

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