# Broadcom Announces Industry's First Enterprise Wi-Fi 8 Access Point and Switch Solution for the AI Era

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**Unified, wireless-first architecture addresses rising demand for hybrid work and delivers performance, efficiency and security needed for next-generation enterprise networking**

PALO ALTO, Calif., Feb. 03, 2026 (GLOBE NEWSWIRE) -- Broadcom Inc. (NASDAQ: AVGO), a global leader in semiconductor and infrastructure software solutions, today announced the industry's first Wi-Fi 8 access point (AP) and switch solution purpose-built with a unified architecture for AI-ready enterprise networks.

Building on Broadcom's first-to-market Wi-Fi 8 radios launched in October 2025, the new enterprise-grade Wi-Fi 8 AP platform is powered by a new accelerated processing unit (APU) chip, the BCM49438, designed to optimize wireless networking and AI acceleration at the enterprise edge. Additionally, Broadcom unveiled an enterprise-grade switch platform powered by a new Ethernet switch, the Trident X3+ BCM56390, with Broadcom's industry-leading multi-gigabit PHY and PoE power sourcing equipment (PSE) chips. Together, these platforms form a unified architecture that maximizes the performance, efficiency and security for the Wi-Fi 8 wireless network in the enterprise.

"As enterprises increasingly rely on AI for critical operations and security, the demand for a robust, intelligent, and secure network infrastructure has never been greater," said Mark Gonikberg, senior vice president and general manager of Broadcom's Wireless and Broadband Communications Division. "Our new end-to-end solution for enterprise Wi-Fi and switching, incorporating Wi-Fi 8, multi-gigabit Ethernet, and edge AI capabilities, provides the essential foundation for organizations to navigate risk and thrive in the AI era."

**Next Era of Enterprise Networking**

Wi-Fi 8 is set to usher in a new era of connectivity, placing unprecedented demands on network infrastructure. The anticipated increases in bandwidth, the need for ultra-low latency for real-time AI applications, and the explosion of telemetry data from a multitude of connected devices will necessitate a significant upgrade to existing networks. This enhanced infrastructure must extend beyond the access points, requiring advanced switches in the wiring closet capable of handling multi-gigabit speeds, advanced quality of service (QoS), and intelligent processing to support the robust, secure, and AI-driven networks of the future.

The transition to Wi-Fi 8 is occurring amidst significant shifts in enterprise technology and campus demands. Major drivers of network transformation include:

- Growing trend of hybrid work driving substantial increase in network bandwidth demands in both uplink and downlink communications.
- Mounting threats from adversarial AI attacks requiring robust, multi-layered defenses to effectively safeguard corporate and user data.
- Next-generation AI factories demanding ultra-high reliability and low latency connectivity to support real-time operations.
- Operating expense (OpEx) becoming a critical consideration for next-generation network upgrades.

Broadcom is pioneering enterprise network solutions with three major industry firsts to address this shifting landscape:

1. **Comprehensive, End-to-End Security** -- Broadcom's portfolio is the first to implement MACsec across all switch ports and access points, delivering complete, end-to-end security.
2. **Extensive Analytics** -- The Wi-Fi 8 solutions introduce advanced telemetry and analytics engines, covering the entire portfolio from the latest Wi-Fi 8 access points to the campus switching infrastructure.
3. **Integrated Edge AI** -- Advanced AI model acceleration is delivered through an integrated Edge AI/ML engine on the Wi-Fi 8 AP, eliminating the need for the added cost of a separate NPU or coprocessor.

**The Wi-Fi 8 Edge AI Access Point Platform**

At the heart of the Wi-Fi 8 AP platform is the new BCM49438 APU that combines high-performance computing, networking, and AI acceleration in a single, tightly integrated silicon. Paired with Broadcom's latest enterprise Wi-Fi 8 radio chips, the BCM43840, BCM43844 and BCM43820, enterprise OEMs can build a complete Wi-Fi 8 AP that enables edge AI processing, real-time optimization, and adaptive intelligence across all frequency bands.

**The Trident X3+ Switch Platform**

Complementing the AP is the new Trident X3+ Ethernet switch platform. The Trident X3+ is engineered with a security-first approach, doubling the front-panel bandwidth to up to 48 multi-gigabit ports to support high-density Wi-Fi 8 deployments. It is the first switch to integrate PQC-compliant MACsec across all ports and includes a Secure Boot engine with a Hardware Root-of-Trust, ensuring comprehensive, end-to-end security across the entire wired and wireless network. Further, the platform is equipped with Broadcom's multi-gigabit PHYs, including the BCM84918, BCM54908 and BCM54908E, that provide seamless, high-speed AP connectivity and PoE PSE chips that deliver optimal power and efficiency.

**Unified Architecture Driving Next-Generation Networks**

The unified architecture, integrating Wi-Fi 8 capabilities, APU, Trident X3+ switch and multi-gigabit PHY and PoE PSE, significantly elevates network telemetry capabilities, moving beyond simple logging to offer deep, real-time insights for effective AI-powered network operations (AIOps). Further, the

solution includes Wireless Time-Sensitive Networking (wTSN), leveraging 1588 Precision Time Protocol (PTP) to guarantee ultra-low latency and deterministic communication. This precision is foundational technology for next-generation industrial environments and sophisticated AI-driven manufacturing processes.

"Broadcom's new Wi-Fi 8 solution addresses many of the critical challenges facing modern enterprise networks," said Siân Morgan, research director at Dell'Oro Group. "By taking an end-to-end approach, from the access point to the switch, Broadcom is delivering enhanced network performance and advanced analytics for AIOps. Broadcom's focus on integrated edge AI, lower-cost MACsec security, and end-to-end telemetry will result in smarter, more secure, and more cost-efficient networks for enterprises."

**Availability**
Broadcom is currently sampling the complete enterprise Wi-Fi 8 AP and switch solution, including the new BCM49438 APU with Wi-Fi 8 radio chips and Trident X3+ BCM56390 switch with multi-gigabit PHY and PoE PSE chips, to its early access customers and partners. Contact your local Broadcom sales representative for samples and pricing.

**Kumar Srikantan, Vice President and General Manager, Campus, Arista Networks**
- "Arista's Cognitive Campus platforms have been powered by multiple generations of Broadcom's networking silicon products. We are excited t extend this portfolio by leveraging Broadcom's new enterprise platform with compelling features such as native encryption on all ports and efficient, high-bandwidth interfaces to connect to the latest generation of Enterprise Wi-Fi access points. Combined with Arista's feature-rich EOS® software, we look forward to delivering another industry-leading solution for the wired enterprise market."

**Dan DeBacker, Chief Product Officer, Infrastructure at Extreme Networks**
"AI is redefining enterprise Wi-Fi. By building our next-generation Wi-Fi 8 access points and switches on Broadcom's industry-leading platform, we're delivering AI-driven networking at the edge with built-in intelligence, automation, and security. Our technology leadership translates into tangible customer value with 24/7 reliability, lower operational costs, faster AI-enabled applications, and consistently exceptional user experiences at scale. This innovation is powered by our long-standing partnership with Broadcom, enabling us to bring market-leading solutions to customers with speed and confidence."

**Sanjoy Dey, VP of Wireless Product Management, HPE**
"HPE is proud to continue our collaboration with Broadcom on Wi-Fi 8 for our next generation of HPE Networking Self-Driving solutions. Together, we can enable enterprise wireless customers to unlock new levels of efficiency, reliability and performance, paving the way for the next era of secure, AI-native operations."

**Pramod Badjate, President & GM, NETGEAR Enterprise**
"Netgear has leveraged Broadcom technology in generations of market leading networking products. We are excited to continue this long collaboration and develop exceptional new solutions for the AI-driven enterprise leveraging these new switch technologies and deliver sophisticated high-bandwidth, intelligent and secure solutions to our customers."

**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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