



## Broadcom Tomahawk® 3 Powers Arista Networks' New 400GbE Switching Systems

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*World's highest-performance ethernet switch-on-chip now shipping in production at the heart of Arista 7060X4 Series*

SAN JOSE, Calif., Oct. 23, 2018 (GLOBE NEWSWIRE) -- Broadcom, Inc. (NASDAQ: AVGO), today announced that the StrataXGS® Tomahawk® 3 series is shipping as the central switching chipset inside Arista Networks' new [7060X4 Series](#) of 400GbE cloud networking platforms.

The new systems announced by Arista, providing 32 ports of 400GbE connectivity over OSFP or QSFP-DD optical interfaces in a compact 1U hardware form factor, are each built using a single 12.8 Terabit/sec Tomahawk 3 BCM56980 device to provide full-duplex, line rate switching and routing across all ports. The Tomahawk 3 Series provides industry-leading 50G PAM-4 SerDes performance, the highest available Ethernet I/O and packet processing bandwidth on a single chip at 100/200/400GbE, as well as state-of-the-art buffering, load balancing, high-availability and network telemetry capabilities, tailored to the rigorous demands of software-defined cloud networks. Combined with Arista's robust, unified EOS® network operating system and optical integration of OSFP and QSFP-DD technologies, Tomahawk 3 enables the new 7060X4 systems to accelerate adoption of 400GbE network infrastructure in the cloud.

"Tomahawk 3 is an important catalyst for the build-out of 400 Gigabit Ethernet cloud networks," said Andreas Bechtolsheim, Chief Development Officer and Chairman of Arista Networks. "The four-fold increase in Ethernet link speed and substantially lower power and cost per bit enables cloud customers to build more scalable next-generation network fabrics in a cost and power efficient manner."

### StrataXGS Tomahawk 3 Series Product Highlights:

- Supports line-rate, non-blocking 32 x 400GbE switching and routing on a single chip, with fully flexible I/O configuration to enable breakout to 64 x 200GbE ports, 128 x 100GbE ports, or any combination thereof
- Delivers quantum leap in hyperscale network performance, CAPEX and OPEX efficiency: 40% reduction in power per 100Gbps, and up to 75% lower cost per 100Gbps, versus alternatives
- New, state-of-the-art, integrated shared-buffer architecture offers 3X to 5X higher incast absorption and provides the highest performance and lowest end-to-end 99.9% latency for RoCEv2 based workloads
- Industry-leading Broadview™ Gen 3 integrated network instrumentation feature set and software suite, providing full visibility to network operators into packet flow behavior, traffic management state, and switch internal performance
- Comprehensively supports all packet processing and traffic management requirements for cloud-scale network use cases: up to Million-route forwarding scale, doubled ECMP scale, Dynamic Load Balancing and Group Multipathing, In-Band Network Telemetry, Elephant Flow detection and re-prioritization
- Robust connectivity using 256 instances of the industry's best performing and longest-reach 50G PAM-4 integrated SerDes core, enabling long-reach (LR) East-West optical links and Direct-Attached-Copper (DAC) in-rack cabling in the data center, fully compliant to new IEEE standards for 50/100/200/400GbE
- Multiple switch device variants at 12.8 Tbps (32x400GbE / 128x100GbE), 8.0 Tbps (48x100GbE + 8x400GbE), and 6.4 Tbps (16x400GbE / 64x100GbE), providing optimized performance, cost, and power based on application use case
- Implemented with unparalleled silicon area and power efficiency; qualified and shipping in volume on proven 16nm process technology node

### About Broadcom Inc.

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