



## Broadcom's Industry Leading PAM-4 PHY Shipments Surpass 1 Million Ports

September 20, 2018

### End-to-end 50/100/200/400G PAM-4 Portfolio Expands Bandwidth Capacity for Data Center and Cloud Infrastructure

SAN JOSE, Calif., Sept. 20, 2018 (GLOBE NEWSWIRE) -- Broadcom Inc. (NASDAQ: AVGO), a leading designer, developer and global supplier of a broad range of digital and analog semiconductor connectivity solutions, today announced that it has shipped more than 1 million ports of PAM-4 PHYs to the wired infrastructure market, further extending its leadership position in the data center and cloud networking applications. With increased penetration of Broadcom's high-density terabit LAN switches like the Tomahawk® 3 and Jericho™ 2, Broadcom is on pace to reach the 2 million PAM-4 PHY port shipment milestone by the end of 2018.

"This marks a significant milestone for Broadcom and, more importantly, demonstrates our leadership in delivering state-of-the-art PAM-4 PHY solutions to meet the increasing need for higher bandwidth in data center and cloud infrastructure," said Lorenzo Longo, senior vice president and general manager of the Physical Layer Products Division at Broadcom. "Built on proven PAM-4 SerDes technology that are foundational to Broadcom's state-of-the-art switch processor chips, both merchant silicon and ASIC, Broadcom's broad portfolio of complementary PAM-4 PHYs enables rapid adoption and drives faster time to market for our customers. As a leading provider of optical PHY solutions for wired infrastructure applications, Broadcom continues to push the boundaries of PAM-4 PHY technology to further drive bandwidth expansion for next generation networks."

Broadcom offers a comprehensive selection of PAM-4 PHY devices supporting 50G, 100G, 200G and 400G data rates. Broadcom's PAM-4 PHY devices support optical module, front panel and backplane applications. Additionally, the portfolio includes gearbox, retimer and MACsec PHY devices supporting various port configurations and data rates. Broadcom leads the industry in optical PAM-4 PHY shipments with significant volumes of 16nm PAM-4 PHY devices to be delivered in the second half of 2018. Notable Broadcom PAM-4 PHY devices currently shipping include:

[BCM81724](#) – 8x56G PAM4 to 16x25G NRZ Reverse Gearbox (400G)

[BCM82251](#) – 4x25G NRZ to 2x50G PAM4 Gearbox (100G)

[BCM81141](#) – 4x50G PAM4 to 4x50G PAM4 PHY (200G)

[BCM81181](#) – 8x50G PAM4 PHY for Optical Modules (400G)

[BCM81330](#) – 8x50G PAM-4 PHY for Network Backplanes (400G)

[BCM81118](#) – 1x50G PAM-4 PHY for Pluggable Transceiver Modules (i.e., SFP56)

**Please contact your local Broadcom sales representative for samples and pricing.**

#### About Broadcom

Broadcom Inc. (NASDAQ:AVGO) is a leading designer, developer and global supplier of a broad range of digital and analog semiconductor connectivity solutions. Broadcom Inc.'s extensive product portfolio serves four primary end markets: wired infrastructure, wireless communications, enterprise storage and industrial & other. Applications for our products in these end markets include: data center networking, home connectivity, set-top box, broadband access, telecommunications equipment, smartphones and base stations, data center servers and storage, factory automation, power generation and alternative energy systems, and electronic displays. For more information, go to [www.broadcom.com](http://www.broadcom.com).

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