



MACOM to Demonstrate TIA and Laser Driver Interoperability with Broadcom 100Gbps VCSEL, Photodetector and PAM-4 DSP for up to 1.6Tbps Applications

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LOWELL, Mass.--(BUSINESS WIRE)--Mar. 7, 2022-- MACOM Technology Solutions Inc. ("MACOM"), a leading supplier of semiconductor products, today announced a collaboration that demonstrates interoperability of Broadcom's VCSEL laser, photodetector and PAM-4 DSP with MACOM's VCSEL driver and transimpedance amplifier (TIA) for 100Gbps per lane multi-mode fiber (MMF) applications. The live interoperability demonstration can be viewed at MACOM's booth #3927 at the Optical Networking and Communications Conference 2022 (OFC) in San Diego.

The pairing for this 100 meter MMF demonstration, includes MACOM's **MATA-39434 4x100 Gbps PAM-4 TIA** and **MALD-39435 4x100 Gbps PAM-4 VCSEL driver** along with Broadcom's VCSEL (AFCD-V84LPx), Photodetector (BPD3056-4) and 7nm Portofino DSP (BCM878xx) for 100Gbps/lane up to 1.6Tbps short reach modules (SFP, QSFP, OSFP, QSFP-DD) and COB on-board optics.

MACOM's chipset delivers IEEE standard specified performance and enables low power consumption, best in class linear performance, low noise and low latency for short reach MMF applications. MACOM's devices are also targeted for the upcoming [Terabit BiDi MSA](#) specification supporting 1.6Tbps per module.

"Our customers require high-performance solutions to enable their data center applications," said Marek Tlalka, Senior Director, High-Performance Analog, MACOM. "This collaboration builds on our recently demonstrated single-mode interoperability offering the industry another proof point towards the interoperability of optics and DSPs with MACOM's Laser drivers and TIAs and a path to shorter design cycles for high-speed optical module manufacturers."

"Broadcom's 100Gbps PAM-4 DSPs, VCSELs and photodetectors along with MACOM's TIAs and laser drivers provide industry leading performance at the lowest power for short reach, high speed optical modules," said I-Hsing Tan, Director of Product Marketing, Optical Systems Division, Broadcom. "Displaying leading performance at 100 meters for MMF applications highlights Broadcom's interoperability with various components needed to develop industry leading optical modules."

MACOM will host live demonstrations at OFC at booth #3927. To schedule a meeting on MACOM's Laser Driver and TIA, please contact your MACOM sales team.

About MACOM

MACOM designs and manufactures high-performance semiconductor products for the Telecommunications, Industrial and Defense and Datacenter industries. MACOM services over 6,000 customers annually with a broad product portfolio that incorporates RF, Microwave, Analog and Mixed Signal and Optical semiconductor technologies. MACOM has achieved certification to the IATF16949 automotive standard, the AS9100D aerospace standard, the ISO9001 international quality standard and the ISO14001 environmental management standard. MACOM operates facilities across the United States, Europe, Asia and is headquartered in Lowell, Massachusetts. To learn more, visit www.macom.com.

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