

## MPM-400AR

### Dual Port 400GE QSFP-DD PAM4 Module

This advanced module provides up to 800G of throughput to address the high capacity testing demands of the next generation PAM4 Ethernet/transport market.



Supporting 2x simultaneous and independent 400G QSFP-DD ports along with 2x QSFP56 and SFP56 ports the MPM-400AR module delivers both convenient and flexible testing capabilities for a wide range of optical transceivers, port and data rates all in the same module.

#### MODULE HIGHLIGHTS

#### Applications

- Network equipment, systems, and IC development
- Transceiver validation
- Design verification and system testing (SVT)
- Production and manufacturing test
- Network verification and service delivery

#### Key Features

- 2x 400G port Ethernet testing per IEEE 802.3bs
- QSFP-DD transceivers and cables, supports I2C read/write testing
- 8x50G PAM4 400GAUI-8 electrical interface
- Physical layer & PAM4 signal integrity testing
- Comprehensive FEC layer stressing and analysis
- MAC/Ethernet/IP layer throughput & traffic verification
- Multi-Lane Unframed BERT/PRBSQ PAM4/NRZ pattern testing
- 2x QSFP56 & 2x SFP56 ports for additional testing capability

#### General

- The MPM-400AR is based on an advanced programmable native PAM4 FPGA design which provides best signal integrity and future proof hardware to support current and emerging testing applications.
- Supporting multiple test automation APIs including native Python provides NEMs R&D/SVT labs, manufacturing, and service providers with a comprehensive all-in-one toolset for verification of next generation PAM4 Ethernet/transport technologies.
- The 400G MPM-400AR may be used in the modular MPA® platform with existing 10/100G application modules providing simultaneous, independent, multi-port test capability from 400Gbps to 10Mbps.