

Abstract: This amendment to IEEE Std 802.3–2008 provides physical layer specifications and management parameters for symmetric and/or asymmetric operation at 10 Gb/s on point-to-multipoint passive optical networks (10G-EPON). As such, the 10G-EPON extends the network architecture of P802.3ah 1 Gb/s EPON, providing support for both symmetric and asymmetric data rates while maintaining complete backward compatibility with already deployment equipment.

Keywords: 10 Gb/s Ethernet Passive Optical Networks (10G-EPON), PON, Point to Multipoint (P2MP), Physical Medium Dependent (PMD), Multi-Point MAC Control (MPMC), Reconciliation Sublayer (RS), Physical Coding Sublayer (PCS), and Physical Media Attachment (PMA), Forward Error Correction (FEC)

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