Approved Networks
A brand of **legrand**

C1-TXM-MPOLT-05I
10GBASE, SFP+, XGS-PON/EPON, OLT, SMF TRANSCEIVER
1577nm/1270nm, SC/UPC CONNECTOR

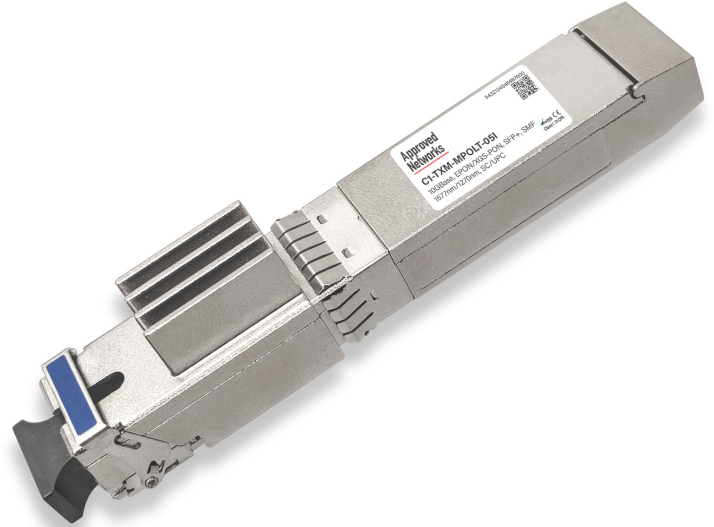Approved Networks | Champion ONE | U.S. Critical

Features:

- Hot-Pluggable SFP+ 10G Optical Transceiver with Embedded Universal Ethernet-To-PON MAC Bridge

- Software Configurable, Symmetric 10G/10G Rates for XGS-PON or 10G EPON Protocols

- Industrial Temperature (-40° to 85°C case temp) Deployable

- Supports 500 Alloc-ID/1000 LLIDs and Jumbo Frames up to 900KB/12.5KB (for XGS/EPON, respectively)

- In XGS-PON Mode: Compliant With ITU-T G.9807.1 Specifications

- In EPON Mode: Compliant With IEEE802.3av, SIEPON, DPoE, and PON AES Specifications

- IEEE 802.1AE MACSec Uplink Encryption

- IEEE 1588v2 & SyncE timing & Sync Support

- In-Band Management via Ethernet Link OAM (IEEE 802.3 Clause 57)

- Class PR10+ Optical Power Budget
  -- 1577nm Cooled DML Laser
  -- 1270nm APD/TIA Burst Receiver

- Integrated Digital Diagnostics And Monitoring (SFF-8472), and Burst RSSI

- Industry-Unique Modularity and Scalability

Applications:

- Remote Node and Other High Temperature environments

- Outdoor Cabinet Deployments

- High-Speed Networks Requiring Point-to-Multipoint Economics

- Traditional MSO/Cable Plant Fiber Upgrade/ Node Splits

- Wireless Backhaul/Midhaul

1. Overview

Approved Networks has teamed up with TiBit Communications to offer an industrial temperature-level, network-facing component for a PON (Passive Optical Networking) solution uniquely tailored for deployment in node and other outdoor MSO/Carrier solutions.

This I-Temp MicroPlug™ OLT is a hot-pluggable SFP+ optical transceiver with a built-in 10G Ethernet-to-10G PON OLT MAC Bridge. The optical components in this solution are optimized for high-temperature PON installations requiring less than 10km of reach. The Tibit I-Temp solution enables an environmentally-hardened PON implementation, while maintaining fidelity to carrier PON standards.

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The SFP+ OLT plugs into remote node and other high-temperature switch environments with SFP+ sockets. It enables switches to deploy point-to-multipoint, high-speed connections, including in node solutions with other access capabilities. TiBit's I-Temp OLT can connect to a wide range of OEM agnostic 10G ONUs.

Approved Networks and TiBit further pair industry-unique MicroPlug™ devices with Autonomous Boot Mode software to allow plug-and-play implementation of the entire solution.

This technology requires less space and power than any other OLT product on the market.

2. Ordering Information

Part Number	Link Budget	Case Temperature
C1-TXM-MPOLT-05I	Class PR10+	-40ºC to 85ºC

3. Contact Information

Tel: 800.590.9535
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