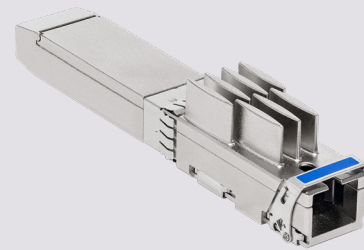


DATA SHEET

Tibit MicroPlug OLT

Tibit Technologies



Ciena's Tibit™ MicroPlug™ OLT is a configurable ITU-T XGS-PON or IEEE 10G E-PON hot-pluggable SFP+ optical transceiver with a built-in 10G Ethernet-to-PON MAC bridge. It uses 10G XGS/10GE-PON optics to enable 10G PON solutions at a fraction of the cost of fixed-format OLT chassis and pizza boxes.

This 10G OLT plugs into commercially available Ethernet switches or other Ethernet-enabled networking equipment with SFP+ sockets, enabling validated equipment to become part of any 10G PON network.

The modularity and remote-management capabilities of this SFP+ pluggable OLT make it ideally suited for virtualized PON management solutions and software defined networking (SDN) implementations such as the Open Networking Foundation CORD and Broadband Forum OB-BAA.

The Tibit MicroPlug OLT enables network operators to quickly deploy high-bandwidth services in an agile, elastic, and scalable way.

This technology requires less space and power than any other OLT product on the market, including very high-capacity deployments.

Applications

- Central office/residential PON access
- High-bandwidth enterprise PON connectivity
- Ethernet switch PON extension/co-location
- Outside plant PON access bridge connectivity
- Cable/MSO CCAP PON connectivity
- Remote DOCSIS PHY
- Mobile backhaul (MBH)
- Multi-Dwelling Unit (MDU) located PON bridge

Features and benefits

- Advanced industry pluggable micro-OLT (OLT)
- SFP+ 10G optical transceiver with embedded universal Ethernet-to-PON MAC bridge
- Software-configurable, symmetrical 10G/10G rates for XGS-PON or 10GE-PON protocols
- In XGS-PON mode: compliant with ITU-TG.9807.1 specifications
- In E-PON mode: compliant with IEEE802.3av, SIEPON, DPoE, and PON AES specifications
- IEEE 802.1AE MACsec uplink encryption
- In-band management via Ethernet link OAM (IEEE 802.3 clause 57)
- Supports up to 128 subscribers per uOLT
- IEEE 1588v2 and SyncE timing and sync support
- XGS class N2/E-PON PR30* optical power budget
 - 1577 nm cooled EML DFB laser
 - 1270 nm APD/TIA burst receiver
- Integrated digital diagnostics and monitoring (SFF-8472), and burst RSSI
- Single fiber SC/UPC receptacle
- E-Temp with -40°C cold start-up through +75°C (case temp)
- Industry-unique modularity and scalability
- Pairs with modular MicroClimate Management System® (MCMS) for modular integration into vendor and carrier networks

Ordering information

Part number	Link budget	Case temp
TXM-MPOLT-01E	CLASS N2/PR30+	-20°C TO +75°C

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