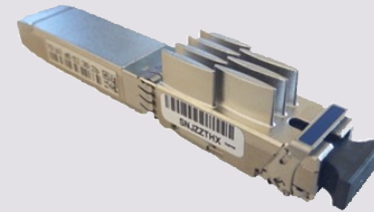


DATA SHEET

# Tibit MicroPlug ONU/ONT

Tibit Technologies



**Ciena's Tibit™ MicroPlug™ micro-Optical Network Unit (ONU)/ Optical Network Terminal (ONT) is a hot-pluggable SFP+ optical transceiver with a built-in 10G Ethernet-to-10G PON MAC bridge (XGS-PON and 10GE-PON for ITU-T and IEEE modes, respectively). It is a complete ONU/ONT solution contained in a single device that can operate in Ethernet switches with standard SFP+ interfaces and other Ethernet-enabled devices, like enterprise solutions and 4G/5G base stations.**

It plugs into commercially available Ethernet switches or other Ethernet-enabled networking equipment, enabling validated equipment to be part of a 10G PON network.

The Tibit MicroPlug ONU/ONT provides standard PON management interfaces: XGS-PON ONT management control interface (OMCI) and 10GE-PON OAM.

The Tibit ONU/ONT can also operate in autonomous boot mode in conjunction with the Tibit MicroPlug OLT so that PON can be plug-and-play installed and come up active without requiring manual provisioning and SLA configuration.

The Tibit MicroPlug ONU/ONT enables quick deployment of network operators to quickly deploy high-bandwidth services in an agile, elastic, and dynamic way.

## Features and benefits

- 10G optical transceiver with embedded universal Ethernet-to-PON MAC bridge
- Hot-pluggable SFP+ footprint
- Supports symmetric 10G/10G mode of operation for both ITU-T XGS-PON and IEEE 10GE-PON
- XGS-PON mode: compliant with ITU-T G.9807.1 specifications
- 10GE-PON mode: compliant with IEEE802.3av, SIEPON, DPoE, and AES specifications
- Currently available in commercial temperature implementations
- IEEE 1588v2 and SyncE support
- XGS class N2/10GE-PON PR30 optics:
  - 1270 nm DML burst laser
  - 1577 nm APD/TIA receiver
- Integrated digital diagnostics and monitoring (SFF-8472)
- Single fiber SC/UPC receptacle
- Option for on-device personality (default configuration) storage in non-volatile memory to allow autonomous boot mode deployment

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## Applications

- PON ONU/ONT connectivity for CPE devices
- High-bandwidth enterprise PON connectivity
- Wireless backhaul/midhaul
- Multi-Dwelling Unit (MDU) located PON bridge
- High-density PON aggregation
- Outside plant PON access bridge connectivity
- M2M industrial applications

## Ordering information

Part number	Link budget	Case temp
TXM-MPONU-01I	CLASS N2/PR30	-40°C TO +85°C

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