

# Product Brief

## Tibit Campus MicroPlug™ OLT



### FEATURES

- World's only enterprise pluggable OLT
- 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
- 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 and DPoE Specifications
- IEEE 802.1AE MACSec uplink encryption
- IEEE 1588v2 & SyncE timing and sync support
- Class PR10+ Optical Power Budget
  - 1577nm Cooled DML Laser
  - 1270nm APD/TIA Burst Receiver
- Integrated Digital Diagnostics And Monitoring (SFF-8472), and Burst RSSI
- Single Fiber SC/UPC Receptacle
- Industry-unique modularity and scalability

### OVERVIEW

Tibit's Campus pluggable solutions are uniquely engineered, hardware and software, for PON [Passive Optical Networking] deployments in campus, business park, in-building, and other shorter-reach use cases.

The Campus 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 on-campus/in-building installations requiring less than 10km of reach. It enables a lower-power, lower-cost PON implementations, while maintaining fidelity to carrier PON standards.

The SFP+ OLT plugs into standard Ethernet switches of other Ethernet-enabled networking equipment with SFP+ sockets. It enables switches to deploy point-to-multipoint, high-speed connections throughout the campus or enterprise environment. This provides cost effective use of on-campus or in-building trunk fibers. Tibit's Campus OLT can connect to the Tibit Campus MicroPlug™ ONU and/or 3<sup>rd</sup> party 10G ONUs.

Tibit further pairs industry-unique MicroPlug™ devices with our Autonomous Boot Mode software to allow plug-and-play implementation of the entire solution with or without a provisioning system connected.

Tibit's pluggable OLT technologies requires less space and power than any other product on the market.



### APPLICATIONS

- High-speed networks requiring point-to-multipoint economics
- University Campus classrooms, labs, offices, etc...
- Business Parts/Campus users
- Hospitality and Health Care Deployments
- Short-reach Carrier Deployments
- Data Center PON
- Wireless Back/Mid-Haul

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Part Number	Link Budget	Case Temp
TXM-MPOLT-05C	Class PR10+	0...70C