



180C Optical Network Terminal (ONT180C)

The Tellabs 180C Optical Network Terminal (ONT) provides high-density gigabit Ethernet connectivity that is a scalable and smart choice for the new enterprise LAN. This evolutionary ONT, which supports the modern office and extended campus environments, can be integrated inside office furniture, secured to a wall, mounted underneath a desk or just be free-standing at a desktop. All 3rd millennium IP-based enterprise services and applications can be delivered, including voice, video, high-speed data, wireless, security, access controls and building automation.

Features & Benefits

- Network Access Control (NAC) enables individual user service profiles to automatically follow a user to any port on the Tellabs Optical LAN system, including service profile and security settings
- Eight (8) 10/100/1000 Gigabit Ethernet interfaces with Power over Ethernet support for 8-ports of 4PPoE supporting 802.3af/at/bt
- Fast and efficient IP endpoint provisioning, including power management, monitoring and configurations with Link Layer Discovery Protocol (LLDP) Media Endpoint Discovery (MED)
- Data, VoIP, unified communications and IP video in many forms (e.g., entertainment, surveillance, conferencing)
- Operates seamlessly with Tellabs' complete line of OLTs and along side all ONTs
- Wireless access points, surveillance, security, automation, access control and other corporate services
- Uses Tellabs' industry-leading software-defined traffic management, security, provisioning and quality of service mechanisms
- Best practice for network design calls for a total number of sixteen (16) ONT180C on the QOIU7 (128 UNIs) and 64 on the OIU8 (512 UNIs)
- Supports Dante and CobraNet digital audio systems over IP

Gallery

- 25 VLANs per Ethernet port
- VLAN tagging/detagging, marking/ remarking per Ethernet port (use ports 1-4 for priority tagged services)
- VLAN trunking and stacking
- Virtual switch based on 802.1Q VLAN
- QoS and security policies based on VLAN-ID, 802.1p, DSCP (ports 1-4)
- L2-L4 Access Control Lists (ACLs)
- Dante and CobraNet digital audio systems over IP
- 8-ports of 4PPoE supporting 802.3af/at/bt
- IEEE 802.1x Port-Based Authentication
- MAC address limiting to prevent flooding attacks and limiting the number of devices attached to a port
- IPv6 capable for enterprise services
- Upstream ACL rate limiting
- Link Layer Data Protocol (LLDP) for autoprovisioning, inventory and PoE power management.
- Network Access Control (NAC)
- IGMP v2/v3 snooping

Physical

- Weight: 1.1 lbs
- Depth: 5.84 in
- Width: 10.07 in
- Height: 1.86 in

Interfaces

- Eight 10/100/1000Base-T Gigabit Ethernet RJ-45 connectors
- Autosensing MDI/MDIX

Power

- Phoenix and Molex connectors for power
- Max PoE Power via DC power: 100W
- Max Draw (amps): 2.8 A @ 54VDC, 100-240VAC 2.0A
- Optional (local) battery back-up
- Dying Gasp support
- Input at ONT (volts): 48–56 VDC
- Consumption Idle (watts): 10 W
- Consumption w/o PoE Max (watts): 16W
- Consumption w/PoE Max (watts): 156W
- Max PoE Power via AC adapter: 140W

Gigabit Passive Optical Network

- ITU-T G.984 compliant framing
- Flexible mapping of GEM ports and T-CONT with priority queue-based scheduling
- Activation with automatically discovered Serial Number (SN) and password
- AES-128 decryption with churning keys
- Forward Error Correction (FEC)
- IP DSCP to 802.1p mapping (ports 1-4)
- Support for multicast GEM port
- 0.5~+5 dBm launch power, -27 dBm sensitivity and -8 dBm overload
- Compliant to ITU-T G.984 standards
- SFF-type laser SC/APC connector

- 2.488 Gbps downstream receiver
- ITU-T G.984.2 Amd1 Class B+
- APD receiver and DFB transmitter
- Wavelengths: Downstream 1490 nm, Upstream 1310 nm
- 1.244 Gbps burst mode upstream
- Laser compliant to FCC 47 CFR Part 15
- Class B and FDA 21 CFR 1040.10 and 1040.11, Class I

Operations, Administration and Maintenance (OAM)

- Complete service provisioning, such as Ethernet and VoIP
- Alarming, events and performance monitoring
- Remote image download over OMCI as well as activation and rebooting
- Holds two versions of software with image integrity checking and automatic rollback
- Standards-compliant OMCI as defined in ITU-T G.984.4 and G.988

Environmentals

- Relative humidity: 5% to 85%, noncondensing
- Temperature: -5° C to 50° C

Compliance

- CE, FCC and UL certified

LED Indicators

- PON — Link status
- Ethernet link (per port)
- Ethernet Tx/Rx (per port)

Management

- ONT has no local management access
- Tellabs Panorama PON Manager

Software Support

- Tellabs Panorama PON Manager
- Minimum base software SR30.2 and higher

Installations

- Mounting options: zone, wall, desktop, in-wall, enclosure and/or plenum bracket (sold separately)
- OLTs supported: OLT1150, OLT1150E, OLT1134AC, OLT1131

General

- The development, release, and timing of features or functionality described for Tellabs' products remains at Tellabs' sole discretion. The information that is provided within this data sheet is not a commitment nor legal obligation to deliver any material, code or functionality.