



**SKU:** 81.11G-ONT140CL-R6

**Category:** Optical Network Terminals

# 140CL Optical Network Terminal (ONT140CL)

The Tellabs 140CL Optical Network Terminals (ONTs) provide high-density Gigabit Ethernet connectivity that is a scalable and smart choice for the new enterprise LAN. This cost optimized ONT supports the modern office and extended campus environments, and can be integrated inside office furniture, secured to a wall, mounted underneath a desk or just be free-standing on a desktop. All enterprise services and applications can be delivered, including voice, video, high-speed data, wireless, security, access controls and building automation.

## Features

- Enterprise grade G-PON ITU-T G.984 implementation
- Uses Tellabs' industry-leading software-defined global profiles, traffic management, security, provisioning and traffic management mechanisms
- Advanced IP and Ethernet Functions
- Both IEEE 802.3af Power over Ethernet (PoE) and high-power PoE+ IEEE 802.3at
- Flexible mounting above or below the desk, within the raceways of modular cubicle furniture, lockable enclosures, zone boxes in ceilings or raised floors
- Supports IP-based voice, all forms of enterprise IP-based data traffic and all forms of enterprise IP-based video traffic
- Supports Dante and CobraNet digital audio systems over IP

## Highlights

### Voice

**The Tellabs 140CL ONT supports enterprise VoIP connectivity with the latest unified communications systems such as Avaya and Cisco Unified Communications Call Manager can be delivered over fiber.**

### Video

**Supports all enterprise IP-based video traffic (e.g. entertainment, surveillance, conferencing)**

### Advanced IP and Ethernet

**Uses industry-leading software-defined traffic management, security, provisioning and quality of service mechanisms.**

### Power over Ethernet (PoE)

**Both IEEE 802.3af PoE and high-power PoE+ IEEE 802.3at, including Class-4 negotiations can be selected on per port basis. The maximum PoE power is 60 watts, spread across all four Ethernet ports.**

### Mounting

**Tellabs 140CL ONT mounting can be located above the desk or below the desk, within the raceways of modular cubicle work environments or ONTs**

can be wall mounted. Where security is a priority, lockable enclosures can be used for any of the above-listed locations. They can also be mounted in zone boxes and in raised floors.

## Powering

The Tellabs ONT140CL is designed with local power and remote powering options. Remote powering is supported using a centrally located bulk power plant, emergency power and bulk battery back-up over composite single mode fiber (greenfield).

## Specifications

### Physical

- Height: 1.6 in / 41 mm
- Width: 5.5 in / 139 mm
- Depth: 4.1 in / 104 mm
- Weight: 0.2 lb/.09 kg

### Interfaces

- Four (4) RJ-45 / Gigabit Ethernet w/PoE
- One (1) SC-APC / G-PON (G.984) uplink

### Power

- Max Draw at ONT (Amps): 1.3A
- Consumption w/PoE Max (Watts): 72W
- Consumption w/o PoE Max (Watts): 8W
- Consumption Idle (Watts): 5W
- Input at ONT (Volts): 50-57Vdc

### Local Power Options

- ONT Power Connector: B-Type
- PSU Consumption: 100-240VAC @ 0.8A
- PSU Part Number: 81.11P-PWIL81WM
- Power Supply Unit (PSU): not included

### Power over Ethernet (PoE)

- Max Power Delivered (Watts): 60W

- PoE Standards: IEEE 802.3at and IEEE 802.3af

## Alarm / Monitor / Test

- Dying Gasp
- OMCI

## Environmentals

- Relative humidity: 5% to 85%, noncondensing
- Temperature: 0C / +32F to +40C / +104F

## Compliance

- FCC
- ETL
- CE
- RCM
- UL
- RoHS 6/6

## IP/Ethernet Network

- Total MACs: 1,024
- VLANs per Port: 25
- VLAN Groups: 32
- Total VLANs: 32
- Change of Authorization (Cisco ISE and ForeScout)
- Dynamic ARP Inspection (DAI)
- MAC Authentication Bypass (MAB)
- Private VLAN support
- IGMP v2/v3 snooping
- Network Access Control (NAC)
- Link Layer Data Protocol (LLDP) for autoprovisioning, inventory and PoE power management
- IEEE 802.1x Port-Based Authentication
- Power over Ethernet, both PoE and PoE+ enabled on all four (4) ports
- Both IEEE 802.3af PoE and high-power PoE+ IEEE 802.3at, including Class-4 negotiations
- Dante audio over IP
- Upstream ACL rate limiting
- L2-L4 Access Control Lists (ACLs)
- IPv6 capable for enterprise services
- MAC address limiting to prevent flooding attacks and number of devices attached to a port
- QoS and security policies based on VLAN-ID, 802.1p, DSCP
- VLAN translation and trunking

- VLAN tagging/detagging, marking/ remarking per Ethernet port
- Virtual switch based on 802.1Q VLAN
- Autosensing MDI/MDIX or manual configuration

## Passive Optical Network

- Class B and FDA 21 CFR 1040.10 and 1040.11, Class I
- Laser compliant to FCC 47 CFR Part 17
- 0.5~+5 dBm launch power,APD receiver and DFB transmitter
- ITU-T G.984.2 Amd1 Class B+
- 2.488 Gbps downstream receiver
- 1.244 Gbps burst mode upstream
- Wavelength Downstream 1490 nm, and Upstream 1310 nm
- Support for multicast GEM port
- IP DSCP to 802.1p mapping
- Forward Error Correction (FEC)
- AES-128 decryption with churning keys
- Activation with automatically discovered Serial Number (SN) and password
- Flexible mapping of GEM ports and T-CONT with priority queue-based scheduling
- Compliant to ITU-T G.984 standards
- Remote image download over OMCI as well as activation and rebooting
- Alarming, events & performance monitoring via OMCI
- OMCI complete service provisioning, such as Ethernet and VoIP
- Management Information Base (MIB) manipulation over OMCI by Create, Delete, Set, Get & Get Next commands
- OMCI ITU-T G.988 standard

## LED Indicators

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

## Management

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

## Software Support

- Minimum base software SR31.3 and higher
- Holds two versions of software with image integrity checking and automatic rollback
- Tellabs Panorama PON Manager

## Installation

- OLTs supported are OLT1150, OLT1150E, OLT1134AC, OLT1131, OLT6, OLT1, OLT-mini
- Mounting options in zone, wall, raised floor, below desk and desk top

## Ordering Information

- Tellabs 140CL ONT: 81.11G-ONT140CL-R6
- PSU Part Number: 81.11P-PWIL81WM
- North American Power cable: 81.11W-C5TYPB-R6

## General

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