SKU: 81.11G-ONT203WN
Category:

FlexSym 203W Optical Network Terminal (ONT203W)

The Tellabs FlexSym Optical Network Terminal 203W (ONT203W) offers 3-port Ethernet connectivity for the new enterprise LAN. Two ports support Gigabit Ethernet connectivity and a third high speed port supports 2.5 Gigabit Ethernet. The ONT can be integrated inside office furniture or mounted securely inside a wall. Its paintable and changeable faceplate sets a high standard for matching a wide range of interior office decors. All modern enterprise services and applications can be delivered, including voice, video, high-speed data, wireless, security, access controls, environmental and building automation in a small in-wall form factor. Like all Tellabs Optical LAN solution ONTs, the Tellabs ONT203W provides simple, smart and scalable high-speed services in all enterprise LAN installations, including government, financial, education, healthcare and hospitality.

Features

- Uses Tellabs industry-leading software-defined global profiles, traffic management, security, provisioning and traffic management mechanisms
- Building architects, engineers and consultants will enjoy the 203W ONT's paintable and changeable faceplate for matching a range of interior office decors
- Built-in audible location indicator for easy installation and labeling identification
- Enterprise grade XGS-PON Symmetrical Passive Optical Network ITU G.9807.1 implementation
- Supports two 1 gigabit and one 2.5 gigabit Ethernet ports
- 802.3bt Power over Ethernet (PoE) supporting up to 60W per port
- Bi-directional AES-128 encryption with 60 second churning of keys
- Modular design with separate power module (with remote DC power termination and fiber cable slack storage), ONT electronics (with fiber termination) and a paintable/changeable faceplate
- Advanced IP and Ethernet Functions
- 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

Advanced IP and Ethernet

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

Voice

The Tellabs 203W 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)

Power over Ethernet (PoE)

IEEE 802.3bt PoE including Class-4 negotiations can be selected on per port basis. Up to 60W per port can be configured with a maximum ONT power of 72W.

Mounting

The Tellabs 203W ONT is modular in design so that its ONT power module with power connectors and fiber cable slack storage can be installed separately. The ONT power module, with remote DC power termination, can be installed into a single or dual-gang form factor. This modular design allows for separate installation of DC power and fiber cable during the rough construction phase, while ONT electronics, fiber connectivity and the ONT faceplate can be installed during the finish construction phase. Another benefit of the ONT power module is that it can be installed in preparation for future growth considerations and covered with standard blank faceplate for future use, without incurring the expense of purchasing ONT electronics and an ONT faceplate.

Powering

Remote powering is supported using a centrally located bulk power plant, emergency power and bulk battery back-up over composite single-mode fiber (greenfield), which provides two copper wires or repurposes existing CATx cabling (brownfield).

Specifications

Physical

- Height: base 2.56 – faceplate 4.76
- Width: base 1.85 – faceplate 2.79
- Depth: base 1.28 – faceplate 0.87
- Weight: base 1.0 lb – faceplate 0.1 lb

Interfaces

- Two (2) 1G port, RJ-45 with POE
- One (1) 2.5G multi-gigabit port, RJ-45 with POE
- SC/APC symmetrical ITU-T G.9807.1 PON

Power

- Input at ONT (volts): 52-57Vdc
- Consumption (watts): 6.8 W
- Remote Power Connector: Phoenix (12-26 AWG wire)
- Max PoE Power via remote power: 73W
- Dying Gasp support

Power over Ethernet (PoE)

- Max Power Delivered (Watts): 60W
- 802.3bt supporting up to 60W per port

Passive Optical Network

- ITU-T G.984.2 Amd1 Class B+
- APD receiver and DFB transmitter
- 4-9dBm launch power, -28 dBm sensitivity and -9 dBm overload
- Bi-directional AES-128 encryption with 60 second churning of keys
- Forward Error Correction (FEC)
- IP DSCP to 802.1p mapping
- Support for multicast GEM port
- Compliant with ITU-T G.9807.1 (physical layer), G.987 (.2/.3/.4) and G.988.1 standards
- SFF-type laser SC/APC connector
- Wavelengths: Downstream 1580 nm, Upstream 1280 nm
- 9.95328 Gbps burst mode upstream
- 9.95328 Gbps downstream receive
- Laser compliant FCC 47 CFR Part 15
- Class B and FDA 21 CFR 1040.10 and 1040.11, Class
- Flexible mapping of GEM ports and TCONT with priority queue-based scheduling
- Activation with automatically discovered Serial Number (SN) and password

P/Ethernet

- MAC address limiting to prevent flooding attacks and limiting the number of devices attached to a port
- IGMP v2/v3 snooping
- IEEE 802.1x Port-Based Authentication/MAB
- Link Layer Data Protocol (LLDP) for auto-provisioning, inventory and PoE power management.
- L2-L4 Access Control Lists (ACLs)
- Upstream ACL rate limiting
- Supports Dante and CobraNet digital audio systems over IP
- Virtual switch based on 802.1Q VLAN
- 1024 MAC addresses
- 25 VLANs per Ethernet port
- VLAN tagging/detagging, marking/remarking per Ethernet port
- VLAN trunking and stacking
- IPv6 capable for enterprise services
- Network Access Control (NAC)
- QoS and security policies based on VLAN-ID, 802.1p, DSCP

Operations, Administration and Maintenance (OAM)

- Complete service provisioning, such as Ethernet and VoIP
- Holds two versions of software with image integrity checking and automatic rollback
- Standards-compliant OMCI as defined in ITU-T G.988
- Alarming, events and performance monitoring
- Management Information Base (MIB) manipulation over OMCI by Create, Delete, Set, Get & Get Next commands
- Remote image download over OMCI as well as activation and rebooting

Environmental

- Temperature: 0° C to 46° C
- Relative humidity: 10% to 95%, noncondensing

Compliance

- CE
- FCC
- UL
- RoHS

LED Indicators

- PON LED
- GE1 LED
- GE2 LED
- MG3 LED

Management

- ONT has no local management access

- Tellabs Panorama PON Manager

Software Support

- Minimum base software SR32.0 and higher [Limited Availability]
- Holds two versions of software with image integrity checking and automatic rollback

Installations

- In wall installation
- Built-in location indicator for easy installation and labeling identification

Ordering Information

- ONT Module: 81.11G-ONT203WN
- Power module: 81.11K-ONT140WP-R6 (10-pack)
- Colored faceplates can be ordered in bulk. Please contact for Tellabs sales representative for more ordering details.

General

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