

MULTI DWELLING UNIT 2.5 GPON ONT

Enablence delivers world class, deployment-proven Fiber-To-The-Premise (FTTP) optical access solutions, enabling our customers to field next generation triple and quad-plan networks immediately. Whether our customers are deploying a new network or evolving their legacy networks to next-generation industry standard GPON technologies, our comprehensive Service Convergence Network (SCN™) architecture allows service providers compete more effectively and ensure a scalable next-generation network that will support emerging, bandwidth intensive services and applications for decades to come.



BENEFITS

High-speed Data for Next-Gen Internet services

- 8 available data ports providing line rate Ethernet performance
- IGMP support for IPTV services
- Prioritizes traffic to enable broadcast quality video on demand, full-motion video conferencing, and online gaming services

FEATURES

Carrier-class telephony services

- Two available analog POTS voice lines with remote provisioning capabilities leveraging VoIP
- Flexible support for MGCP, NCS or SIP voice protocols
- Advanced call features such as caller ID, call return (*69), selective call forward, call blocking, call waiting, distinctive ring, call transfer and three-way calling

APPLICATIONS

Advanced management

- Fully manageable from Trident7 EMS™ and BAM™, the Enablence Element Management Systems that providing single-click services-based provisioning.
- ITU and FSAN compliant

The ONT-G88x series of Multi-dwelling, multi-play ready ONTs support a direct connection to a next generation Soft Switch via MGCP or SIP as well as provide GR-303 POTS services via our voice gateway platform. The multi-purpose ONT's additionally support high speed internet access, multi-cast IPTV, RF-analog switched digital video, including embedded single fibre IP-based RF return compatible with both SCTE 55-1 and SCTE 55-2 systems. Specifically designed to reduce the cost of serving MDU and MBU applications, the single unit, highly reliable ONTs are the perfect fit for small to medium business and apartment building needs. An optional T1 expansion unit allows for additional services such as GPON-fed mobile backhaul applications and support for key systems and PBXs. Integrated management system support through EMS and BAM allows for one-click service-based provisioning, pre-deployment configuration, remote configuration and activation of the entire ONT family, as well as full integration into northbound OSS systems. Each of these technician-friendly, environmentally hardened, exterior mounted ONTs features unique port configurations that optimize service delivery for particular subscriber requirements, maximizing customer penetration and revenue potential.

SPECIFICATIONS

Interfaces

- 8 10/100BASE-T RJ45 Ethernet Ports (Physical Connector)
- 800 Mbps Aggregate Data Throughput
- 8 Analog POTS Lines - 5 REN per line
- 0 or 8 (Female F-type) RF Video Ports — ONT-888 versions only (Physical Connector)
- 54 - 1000 MHz RF Video Output Bandwidth
- +17 +/- 3 dBmV RF Output Level (@ 870 MHz, 3.5% OMI)
- +3 dB RF Output Tilt (Nominal, 54-870 MHz)
- SCTE 55-1 and SCTE 55-2 RF Return

GPON Characteristics

- SC/APC Optical Interface
- Single-mode Fiber Type
- 1310 nm Transmit Wavelength
- +0.5 to +4 dBm Mean Launch Power
- 1490 nm Receive Wavelength (Data)
- 1550 nm Receive Wavelength (RF Video)
- -27 dBm Receive Sensitivity @1310nm
- -5 dBm Receive Sensitivity @ 1550nm (48 dB CNR, 3 EDFA Cascade, 78 Analog Cable TV channels)
- -3 dBm Receive Overload @ 1490nm
- >+1 dBm Receive Overload @ 1550nm
- 1244 Mbps Narrowcast Data Rate
- 2488 Mbps Narrowcast Downstream Data Rate

Physical

- Dimensions (W x H x D): 11.75" x 15.5" x 8.5"
- Weight: 21.6 lbs.
- Input Voltage: -48 VDC
- Maximum Power Consumption: 36 W
- MTBF: >200k hrs
- Availability: 99.99%

Compliance

- CFR21, FDA Part 1040, Laser Class 1
- CAN / CSA-22.2 No. 60950-1-03
- IEC 60825-1:2001-08, Edition 1.2
- CFR47, FCC Part 15, Class B
- IEC Pub. No. 60950-1 / EN 60950-1 for Safety of ITE
- EN 55024, Immunity for ITE
- ANSI / UL 60950-1
- EN 55022, Radiated & Conducted Emission for ITE
- RUS Listed
- Operating Temperature: -40° to +140° F (-40° to +60° C)

Ordering Information

- **ONT-G880**
2.5 GPON MDU ONT SC/APC, Class B+ Optics w/8 POTS, 8 10/100 RJ45 Ethernet ports
- **ONT-G888-RTN**
2.5 GPON MDU ONT SC/APC, Class B+ Optics w/8 POTS, 8 10/100 RJ45 Ethernet ports, 8 RF video with RF return
- **ONT-UPS-48**
48v indoor UPS for MDU ONT products

For more information
visit www.enablence.com