

# SINGLE FAMILY UNIT 2.5 GPON ONT-G1321iX

Enablence delivers world class, deployment-proven Fiber-To-The-Premises (FTTP) optical access solutions, enabling our customers to field next generation triple and quad-play 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 to compete more effectively and ensure a scalable next-generation network that will support emerging, bandwidth intensive services and applications for decades to come.



## BENEFITS

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

## FEATURES

High-speed Data for Next- Gen Internet services

- Two available Ethernet ports with line rate performance
- Full IGMP support for IPTV

Video-optimized

- Quad-play ready with delivery of both IP and RF video over same single fiber
- RF video ready with integrated SCTE 55-1 and SCTE-55-2 RF Return

## APPLICATIONS

Advanced management

- Fully manageable from Trident7 EMS™ and BAM™, Enablence world-class element management systems.
- ITU and FSAN compliant

DATA SHEET

The G1321iX ITU G.984 compliant 2.5 GPON ONT is ideal for single family residence and small business applications. The Enablence suite of multi-play ready ONT's 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. This multi-purpose ONT additionally supports high speed internet access, multi-cast IPTV, and RF-analog and switched digital video, including embedded single fibre IP-based RF-return compatible with both SCTE 55-1 and SCTE 55-2 systems. Integrated management system support through Trident7 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. The technician-friendly, indoor ONT-G1321iX features a cost effective and aesthetically pleasing enclosure with integrated fibre management tray, services port configurations that optimize service delivery for particular subscriber requirements, maximizing customer penetration and revenue potential, and full compliance to GPON standards.

## SPECIFICATIONS

### Interfaces

- 1 10/100/1000BASE-T RJ45 Ethernet Port
- 3 10/100BASE-T RJ45 Ethernet Ports
- 2 Analog POTS Lines -5 REN/300 ft per line
- 1 (Female F-type) RF Video Ports - ONT-221 versions only
- 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)
- Available SCTE 55-1 and SCTE 55-2, DOCSIS RF Return

### GPON Characteristics

- SC/APC Optical Interface
- 1310 +/- 4 nm TX Wavelength
- +0.5 to +4 dBm Mean Launch Power
- 1490 +/- 10 nm RX Wavelength (Data)
- 1555 +/- 5 nm RX Wavelength (RF Video)
- -27 dBm RX Sensitivity @1310nm
- -5 dBm RX Sensitivity @ 1550nm (48 dB CNR, 3 EDFA Cascade, 78 Analog Cable TV channels)
- -3 dBm RX Overload @ 1490nm
- >+1 dBm RX Overload @ 1550nm
- 1244 Mbps Upstream Rate
- 2488 Mbps Downstream Rate

### Physical

- Dimensions (W x H x D): 9.4" x 1.8" x 7.8"
- Weight: 1.1 lbs/0.5 kg.
- Input Voltage: 12 VDC
- Maximum Power Consumption: 13 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: 32° to +113° F (0° to +45° C)

### Ordering Information

- **ONT-G1321iX**  
2.5 GPON ONT SC/APC, Class B+ Optics w/2 POTS, 2 10/100 RJ45 Ethernet ports, 1 RF video
- **ONT-G1321iX-RTN**  
2.5 GPON ONT SC/APC, Class B+ Optics w/2 POTS, 2 10/100 RJ45 Ethernet ports, 1 RF video with RF return

For more information  
visit [www.enablence.com](http://www.enablence.com)