

ONT-11G

High Performance Enterprise and Residential GPON ONT



- ITU G.984-compliant GPON ONT
- Enterprise and residential applications
- Enhanced QoS and multicast for video

ONT-11G is a versatile ONT product featuring four 10/100/1000 Mbps Ethernet interfaces. It is part of RAD's full GPON solution that includes both OLT (Optical Line Terminal) and ONT (Optical Network Terminal) platforms.

ONT-11G complies with ITU-T G.984, G.988 and TR69 set of standards.

MARKET SEGMENTS AND APPLICATIONS

RAD offers a series of advanced GPON ONT devices designed for FTTH (Fiber-to-the-Home) and FTTB (Fiber-to-the-Building) deployments of next-generation Optical Access networks. The product line addresses the rapidly growing service provider needs for flexible, high-capacity fixed-line broadband solutions to support emerging video applications (e.g., CCTV, mobile backhaul, MTU, VOD, IoT) in industrial, enterprises, residential deployments, aggregation of backhaul traffic from LTE cell sites, enterprise VPN services and SD-WAN networks based on the NFV paradigm.

SERVICES

Using standard OMCI and TR69 protocols, ONT-11G can be configured to provide mobile backhaul, MTU, VOD, IoT, Internet, IPTV etc services.

ETHERNET

ONT-11G has four Ethernet interfaces to cater for applications such as IPTV, Internet etc.

CERTIFICATIONS AND REGULATORY STANDARDS

ONT-11G complies with Part 15 of FCC/UL rules; RoHS (6/6) standards.

Specifications

ETHERNET INTERFACE

Number of Ports	Up to 4
Compliance	Meets 802.3 specifications
Type	10/100/1000 Mbps
Connector	RJ-45
Modes	Half-duplex and full-duplex operation 10/100/1000 Mbps auto-negotiation MDI/MDIX auto detection
Ethernet Packets	up to 2 kB

GPON INTERFACE

Connector	SC/APC
Wavelength	1490 nm/1310 nm
Distance	Up to 20 km depending on split ratio
Transmission	As per ITU-T G.984
Optical Module	Class B+
Optical Transmit Power	+0.5 to +5 dBm
Receive Sensitivity	-28 dBm
Data Rates	2488 Mbps downstream 1244 Mbps upstream
GEM Ports	Up to 256 GEM port IDs
Monitoring	HW dying gasp Ranging and activation process Rogue-ONT detection



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MANAGEMENT

Protocols	OMCI, TR69
Options	SNMP, CLI

TRAFFIC MANAGEMENT

Downstream	AES-128 encryption and key exchange process FEC, RS (255,239) Dedicated independent TX queues for PLOAM and CPU packets
Upstream	FEC, RS (255,239) Normal queues for PLOAM and CPU packets

MONITORING AND DIAGNOSTICS

Features (upstream only)	Performance monitoring Faults and alarms BER monitor
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GENERAL

Environment

Operating Temperature	-5°C to +55°C (23°F to 131°F)
Altitude	Up to 4000m
Humidity	5 to 90%, non-condensing

Power

Power Saving	As per ITU-T 984.3 (01/2014) of ONU power management aspects
Power Supply	12 VDC ,2A +/-5%, round barrel-type connector for power input

Physical

Form Factor	Table top and wall mount enclosure
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Ordering

ONT-11G/ATYPE/#/GPON/APC

#	Ethernet Ports
1GEU	Single 10/100/1000 Mbps port
4GEU	Four 10/100/1000 Mbps ports

RECOMMENDED CONFIGURATIONS

ONT-11G/ATYPE/1GEU/GPON/APC

ONT-11G/ATYPE/4GEU/GPON/APC

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