

GPON Gigabit ONT

with VoIP & RF Video Service



To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT H640GR for SFU (Single Family Unit) incorporates interoperability, key customers' specific requirements and cost-efficiency.

Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, the H640GR ONT supports the full Triple Play of services including voice, video, and high speed internet access.

Compliant with standard OMCI definition, ONT H640GR is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.

GPON Interface

- ITU-T G.984.x compliant GPON ONT
- Data rate of 1.2Gbps/2.5Gbps (US/DS)
- Wavelength: TX 1310nm, RX 1490nm

Reliability and Management

- 802.1p Strict Priority
- L2/L3/L4 Filtering
- Remote Fault Monitoring Function

VoIP Service

- SIP RFC3261/3262/3264
- DTMF dialing / Pulse dialing
- Multiple codecs: G.711, G.723.1, G729
- T.38 FAX mode
- Echo cancellation

RF Video Interface

- Analog RF video over 1550nm wavelength
- 18dBmV output level, 46~870MHz passband

Specifications

Flash Memory	128MB NAND
SDRAM	128MB DDR3
Capacity	GPON Interface: up 1.2Gbps/down 2.5Gbps
Uplink Interface	1 GPON port (SC/APC, SFF)
Service Interface	4 10/100/1000Base-T port (RJ45)
FXS Interface	2 FXS ports (RJ11)
Video Interface	1 RF Video port (F-connector)
LED	PWR, PON, ALM, VoIP, TEL, LAN

Operating Temp.	32 to 104°F (0 to 40°C)
Operating Humidity	5 to 90% (non-condensing)
Power Voltage (adapter)	Input: 100-240VAC, 50/60Hz Output: 12VDC/1.5A
Miscellaneous Interface	On/Off power switch, Reset button (system reboot)
Dimensions (W x H x D)	7.48 x 1.57 x 5.90 in (190 x 40 x 150 mm)

Capabilities

GPON	- ITU-T G.984.x compliant - Forward Error Correction (FEC) - Multiple T-CONTs/GEM ports per device - Flexible mapping between GEM port and T-CONT
Layer 2	- Untagged port configuration - IEEE802.1D and IEEE802.1Q bridging - Standard Ethernet bridging - MAC address learning with auto aging (Up to 1K MAC addresses)
VLAN	- VLAN port filtering - Destination address port filtering 16 active VLANs
Multicast	IGMP snooping

QoS	- HW-based internal IEEE 802.1p (CoS) - Strict Priority (SP) 802.1Q (VLAN tag) QoS mapping, ToS/CoS 8 queues per port
VoIP	- SIP (RFC3261/3262/3264) 5-REN per FXS - RTP, RTCP (RFC3550/3551) - DTMF dialing / Pulse dialing - Multiple codecs: G.711, G.723.1, G.729 - T.38 FAX mode - Echo cancellation
RF Video	- Analog RF video over 1550nm wavelength 18dBmV output level, 46~870MHz passband - Optionally remote band control function

Sample Configuration

