

GPON Gigabit ONT

with VoIP & Video & Wi-Fi Service



To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT H640RW incorporates interoperability, key customers' specific requirements and cost-efficiency.

The H640RW provides one GPON uplink port plus four Gigabit Ethernet (10/100/1000Base-T) ports, one RF video interface, wireless interface and two FXS voice ports that enhance the ability to deliver demanding VoIP/Wi-Fi services. The H640RW supports the full Triple Play of services including voice, video, and high speed internet access.

The H640RW contains both built-in wire-speed L2 switch and L3 routing gateway with port forwarding, NAT and NAPT address translation, PPPoE client support for high speed Internet service.

GPON Interface

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

Wireless LAN

- IEEE802.11b/g/n wireless interface, dual antenna
- Multiple SSIDs
- Security: WEP, WPA-PSK (TKIP) & WPA2-PSK (AES)

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
Uplink Interface	1 GPON port (SC/APC, SFF)
Service Interface	4 10/100/1000Base-T port (RJ45)
FXS Interface	2 FXS ports (RJ11)
Wi-Fi Interface	IEEE802.11b/g/n wireless interface
Video Interface	1 RF Video port (F-connector)

Operating Temp.	32 to 104°F (0 to 40°C)
Operating Humidity	5 to 90% (non-condensing)
LED	PWR, PON, ALM, VoIP, TEL, WLAN, WPS, LAN
Power Voltage (adapter)	12VDC/2A
Miscellaneous Interface	On/Off power switch, Reset button (system reboot)
Dimensions (W x H x D)	7.48 x 2.44 x 5.91 in (190 x 62 x 150 mm)

Capabilities

GPON	<ul style="list-style-type: none"> • ITU-T G.984 compliant • Forward Error Correction (FEC) • Multiple T-CONTs/GEM ports per device • Flexible mapping between GEM port and T-CONT • Dying gasp
Layer 2	<ul style="list-style-type: none"> • Untagged port configuration • IEEE 802.1D and IEEE 802.1Q bridging • Standard Ethernet bridging • MAC address learning with auto aging (Up to 1K MAC addresses)
VLAN	<ul style="list-style-type: none"> • VLAN port filtering • Destination address port filtering • 16 Active VLANs
Multicast	<ul style="list-style-type: none"> • IGMP snooping
QoS	<ul style="list-style-type: none"> • HW-based internal IEEE 802.1p (CoS) • Strict Priority (SP) • 8 queues per port

Wi-Fi	<ul style="list-style-type: none"> • IEEE802.11b/g/n compliant • Multiple SSIDs , Bandwidth: 2.4GHz • 64/128bit wireless encryption protocol (WEP) • Two Transmit and Two Receive path (2T2R) • Max. data rate: 54Mbps in 802.11g
VoIP	<ul style="list-style-type: none"> • SIP (RFC3261/3262/3264) • 5-REN per FXS , RTP, RTCP (RFC3550/3551) • DTMF dialing / Pulse dialing • Multiple codecs: G.711, G.723.1, G729 • T.38 FAX mode, Echo cancellation
RGU (L3 Routing mode)	<ul style="list-style-type: none"> • PPPoE client : one client per RG ONT • DHCP server , DNS server (DNS relay, DNS transparent) • NAT and NAPT: 16K session (US 8K, DS 8K) • Stateful packet inspection firewall with ACL
RF Video	<ul style="list-style-type: none"> • Analog RF video over 1550nm wavelength • 18dBmV output level, 46~870MHz passband • Optionally remote band control function

Sample Configuration

