

10G xPON ONU

EPON or XGS-PON ONU, 10G SC/PC WAN, 10GE +1GE LAN, eBBU support

KEY FEATURES

- IEEE 802.3av 10G-EPON Compliant
- ITU-T G.987.2 XG-PON Compliant
- ITU-T G.9807.1 XGS-PON Compliant
- DOCSIS DPoE 2.0 compliant
- 1 100/1000/2.5G/5G/10GBASE-T Ethernet port
- 1 10/100/1000BASE-T Ethernet port
- Built-in fiber tray
- Optional battery back-up

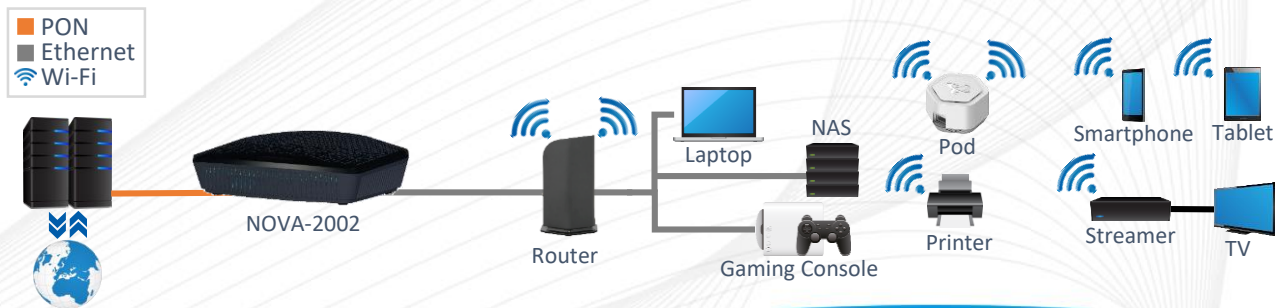


HIGH-PERFORMANCE, ALWAYS-ON INTERNET CONNECTION

NOVA-2002 is a powerful ONU solution to provide high-speed Internet access for residential and business customers. Its 10G PHY delivers speed up to 8.5 Gbps downstream / 8.4 Gbps upstream based on 10 Gigabit PON fiber interface (EPON or XGS-PON). 10G xPON ONU allows MSOs to offer to their customers various broadband services such as telecommuting, HD and UHD video on demand, high-speed residential Internet access, interactive multimedia services, etc. 10G xPON ONU is an intelligent device with IPv6 ready which enables next generation networking without compromise. Its optional battery back-up lasts over 24 hours, following the FCC mandate.

FAST, SIMPLE DEPLOYMENT, MONITORING AND MANAGEMENT

Installation of 10G xPON ONU is quick, straight-forward and can even be carried out by an end-user. Its built-in fiber tray helps technicians do a professional install. Once connected, the built-in DHCP client automatically gets the IP address and configuration data from the network server without human intervention. A browser-based utility allows convenient viewing of key network statistics and IEEE 802.3ah OAM support provides entire remote control over the device.



SPECIFICATIONS

Interfaces

- 1x SC/PC optical port 10G xPON
- 1x RJ-45 10/100/1000/2.5G/5G/10G BASE-T
- 1x RJ-45 10/100/1000BASE-T
- 1x 3.5mm jack for optional battery back-up
- 1x DC 12V Power Jack

xPON Uplink

- 1x SC/PC connector, single mode fiber
 - TX wavelength: 1270 nm
output power: max. 7 dBm
 - RX wavelength: 1577 nm
sensitivity: max. -29 dBm
- Compliant with IEEE 802.3av 10G-EPON*
- Compliant with ITU-T G987.2 XG-PON*
- Compliant with ITU-T G.9807.1 XGS-PON*

Key Features

- 10G-EPON* (choice of protocol)
 - Compliant with IEEE 802.3av (clause 77), IEEE 802.3ah (clause 64) and CTC V3.0 specifications
 - 32 LLIDs in Multiple-LLID (M-LLID) mode - programmable VoQ per LLID
 - 8 priority queues (VoQs) in S-LLID mode
 - Fully support Standard MPCP protocol
- XG-PON/XGS-PON* (choice of protocol)
 - 128 GEM-Port-ID/XGEM-Port-ID
 - 32-TCONT
- Layer 2 switching supporting up to 4K MAC addresses
- VLAN tagging and stripping with priority tag support with QinQ support for full 4K VLAN range
- Jumbo frame support up to 12Kbyte
- QoS functions (DSCP/802.1p/TC arbitrary mapping to queues and flows)
- Per flow packet policing and per queue traffic shaping
- Customizable QoS (with WRED) and powerful ACL support

Management

- IEEE 802.3ah OAM
- Web-based GUI configuration and management
- LEDs clearly display network status and activity
- Power on self-diagnostic

Mechanical

- LEDs: Power, PON, Online, Link/Act
- Factory default reset button
- Dimensions: 179.95mm(W)x51.88mm(H)x153.39mm(D)
- Net weight: 435g
- Built-in fiber tray

Electrical

- Input power: 12VDC
- Power consumption: <12W
- Surge protection:
 - Ethernet RJ-45 sustains at least 4KV

Environmental

- Operating temperature: -32°F (0°C) to 104°F (40°C)
- Operating humidity: 5%-95% (non-condensing)
- Storage temperature: -40°F (-40°C) to 176°F (80°C)

Models:

- NOVA-2002-RES: 10G EPON/XGS-PON ONU

Optional Accessories

- EBBU-0014: External Battery Back-Up (24h)
- Replacement batteries

Compliance / Certificates (planned)

- RoHS compliant
- FCC, UL 62368
- Compliant with CableLabs DPoE
- Compliant with FDA 21 CFR 1040.10 and 1040.11
- UL certified with laser safety standard IEC-60825 Class 1

