



# 10G xPON ONT/ONU

NOVA2302

for Residential and Business Subscribers



Meet today and tomorrow's need for speed with Hitron's NOVA2302 10G xPON ONT/ONU. With future-ready speeds up to 10 Gbps\* downstream and 10 Gbps\* upstream, you can deliver premium tier services to business and residential customers including telecommuting, HD and UHD video on demand, ultra high speed Internet access, interactive media services and more.

## Supports Multiple Fiber Access Standards

The NOVA2302 offers ITU-T G.987.2 XG-PON and ITU-T G.9807.1 XGS-PON, giving you the flexibility to deploy the right solution for your network and customers.

## Key Features

- ITU-T G.987.2 XG-PON Compliant
- ITU-T G.9807.1 XGS-PON Compliant
- One 1/2.5/5/10GBASE-T Ethernet Port
- Extensive Operator Control via Configuration File and IEEE 802.3ah OAM

## Interfaces

- 1x SC-APC 10G Optical Port
- 1x RJ-45 1/2.5/5/10GBASE-T Ethernet Port
- 1x RJ-45 100M/1G BASE-T Ethernet Port

## xPON Uplink

- 1x SC-APC Connector, Single Mode Fiber
  - TX Wavelength: 1270 nm
  - TX Max. Output Power: 6 dBm
  - RX Wavelength: 1577 nm
  - Sensitivity Max.: -29 dBm
- Compliant with ITU-T G.987.2 XG-PON
- Compliant with ITU-T G.9807.1 XGS-PON

## Advanced Features

- 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 and QinQ Support for full 4K VLAN Range
- Jumbo Frame Support up to 12 Kbyte
- 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

- Web-based GUI Configuration and Management
- TR-069, TR-104, TR-143, TR-181, TR-369
- IEEE 802.3ah OAM
- OMCI(G.988)

## Mechanical

- LEDs: Power, PON, Online, Link/Act
- Factory Default Reset Button
- Dimensions: 51.88mm (H) x 179.95mm (W) x 153.39mm (D)

## Electrical

- Input Power: 12VDC
- Power Consumption: ~7.82W
- Surge Protection: Ethernet RJ-45 sustains at least 4KV

## Environmental

- Operating Temperature: 0°C (32°F) ~ 40°C (104°F)
- Operating Humidity: 5% ~ 95% (Non condensing)
- Storage Temperature: -20°C (-4°F) ~ 60°C (140°F)

## Regulatory Compliance

- RoHS Compliant
- FCC Part 15:2019, Subpart B, Class B
- FCC Part 15, Subpart C (Section 15.247)
- FCC Part 15, Subpart E (Section 15.407)
- FCC Part 2 (Section 2.1091) IEEE C95.3 -2002
- ANSI C63.4:2014
- ANSI C63.10:2013
- UL 62368-1, 2nd Ed, 2014-12-01
- UL 62368 with laser safety standard IEC-60825 Class 1
- Compliant with FDA 21, CFR 1040.10 and 1040.11
- cUL
- ICES-003
- CAN/CSA C22.2 No. 62368-1-14, 2nd Ed, Issued: 2014-12-01
- CE