



10G xPON Hardened ONT/ ONU



NOVA2200
for Residential and Business Subscribers

Meet everyone's bandwidth demands with Hitron's NOVA2200 10G xPON ONT/ONU. This powerful solution delivers speed up to 10 Gbps* downstream and 10 Gbps* upstream based on a 10 Gigabit PON fiber interface (EPON or XGS-PON). You can deliver ultra-high symmetrical bandwidth for business customers, as well as premium tier residential services to meet the most demanding HD and ultra-HD video on demand, cloud gaming, multi-Gigabit data, telecommuting applications and more.

Flexible optics: 10G-EPON, XG-PON, XGS-PON

No matter your network needs, NOVA2200 supports ITU and IEEE based PON solutions.

DOCSIS Provisioning for EPON

You don't need to overhaul your existing provisioning, billing and management systems to move to fiber. With support for DOCSIS DPoE 2.0, the NOVA2200 looks like a cable modem to your DOCSIS provisioning systems.

Full use of 10G access speeds

NOVA2200 boasts a multi-rate Ethernet port that can reach up to 10G, so your customer's LAN can make full use of the 10G fiber access speeds.

Stress-free ONT Install

Pair the NOVA2200 with Hitron's new PoE Injector and complete your install indoor or out*, without worrying about power. The PoE Injector can power the ONT from a power source that is up to 65 feet / 20meters away.

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
- One 1/2.5/5/10GBASE-T Ethernet port
- PoE 10GBASE-T (Optional)
- Extensive operator control via configuration file and IEEE 802.3ah OAM
- Hardened case

Interfaces

- 1x SC-UPC/APC 10G Optical Port
- 1x RJ-45 1/2.5/5/10GBASE-T Ethernet Port
- 1x DC 15V Power Jack

xPON Uplink

- 1x SC-UPC/APC Connector, Single Mode Fiber
 - TX Wavelength: 1270 nm
 - TX Max. Output Power: 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

Advanced Features

- 10G-EPON (Protocol Selected Automatically)
 - IEEE 802.3av (Clause 77) Compliance
 - IEEE 802.3ah (Clause 64) Compliance
 - CTC V3.0 Specification Compliance
 - 32 LLIDs in Multiple-LLID (M-LLID) Mode
 - Programmable VoQ per LLID
 - 8 Priority Queues (VoQs) in S-LLID Mode
 - Standard MPCP Protocol fully supported
- XG-PON/XGS-PON (Protocol Selected Automatically)
 - 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

- 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
- Factory Default Reset Button
- Dimensions: 106mm (H) x 162.5mm (W) x 51mm (D)
- Net Weight: <500g

Electrical

- Input Power: 15VDC
- Power Adapter: Customer External BBU
- Power Consumption: <12W
- Surge Protection: Ethernet RJ-45 sustains at least 6KV

Environmental

- Operating Temperature (Hardened case):
 - 40°C (-40°F) ~ 60°C (140°F)
 - PSU limited to 0°C (32°F) ~ 40°C (104°F)
- Operating Humidity: 5% ~ 95% (Non condensing)
- Storage Temperature: -40°C (-40°F) ~ 60°C (140°F)

Regulatory Compliance

- RoHS Compliant
- Compliant with CableLabs DPoE
- Compliant with FDA 21, CFR 1040.10 and 1040.11
- FCC
- UL 62368 with laser safety standard IEC-60825 Class 1
- cUL
- ICES-003

