

10G xPON ONU Gateway

The Hitron NOVA2313 is a powerful 10G XGS-PON ONU gateway designed for operators delivering next-generation fiber broadband services. Unlike the entry-level NOVA2302, the NOVA2313 integrates advanced routing functionality and multiple Ethernet ports, enabling it to serve as a complete residential or SMB gateway for multi-gig connectivity.



Multi-Gig XGS-PON Broadband

Equipped with a 10G XGS-PON interface, the NOVA2313 delivers true multi-gig fiber performance to subscribers. It supports a 10 GigE uplink port for maximum throughput alongside multiple GigE ports for additional devices, ensuring reliable and flexible connectivity for bandwidth-intensive households and small businesses.

Integrated Routing & Operator Efficiency

The NOVA2313 adds full routing functionality, allowing it to operate as a standalone gateway without requiring a separate router. This integration simplifies deployments, reduces equipment costs, and enhances the subscriber experience with carrier-grade features like NAT, firewall, QoS, and IPv4/IPv6 support. Combined with advanced remote management via TR-069 and TR-369, operators gain the tools needed to reduce truck rolls and optimize network performance.

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
- Three 1GBASE-T Ethernet Port
- Router functionality
- Extensive operator control via configuration file
 - IEEE 802.3ah OAM
 - ITU-T G.988 OMCI

Features & Benefits

Multi-Gig XGS-PON Performance

The NOVA2313 delivers multi-gigabit fiber connectivity through a 10G XGS-PON interface, enabling high-speed residential and SMB services. A multi-rate 1/2.5/5/10GbE Ethernet port ensures maximum throughput, while additional Gigabit ports provide flexible connectivity for multiple devices.

Integrated Gateway Functionality

With built-in routing, the NOVA2313 operates as a standalone gateway without requiring an external router. Integrated NAT, firewall, QoS, and IPv4/IPv6 support simplify deployments, reduce hardware costs, and deliver a carrier-grade subscriber experience.

Flexible Ethernet Connectivity

The NOVA2313 includes one multi-rate 10GbE port and three Gigabit Ethernet ports, supporting multiple connected devices or service tiers. This flexible port configuration makes it well suited for bandwidth-intensive homes and small business environments.

Advanced Traffic Management

Support for VLANs, QinQ, jumbo frames, and advanced QoS enables precise traffic control and service differentiation. Per-flow policing and traffic shaping help ensure consistent performance across data, voice, and video services.

Robust Security & Routing

The NOVA2313 provides comprehensive security and routing features, including stateful firewall inspection, intrusion prevention, ACLs, and full IPv4/IPv6 support. Advanced routing protocols ensure compatibility with modern fiber service architectures.

Operator-Focused Management

Designed for efficient operations, the NOVA2313 supports TR-069, TR-369, OMCI, and IEEE 802.3ah OAM. These tools provide deep remote visibility and control, reducing truck rolls and simplifying large-scale fiber deployments.

Strengthen your Service Offering

Cut Installation Time, Not Corners

Hitron ProInstall™ transforms the way technicians deploy Hitron ONTs and ONUs by simplifying every step of the installation process. With guided workflows, automated device recognition, and real-time validation checks, Hitron ProInstall ensures faster, more accurate installs while reducing repeat truck rolls. Technicians get a clear, consistent setup experience, and service providers gain greater installation quality, improved first-time-right rates, and a smoother path to activating high-speed fiber services.

Real-Time Insights for Smarter Decisions

HitronCloud® transforms raw device telemetry into real-time, actionable insights that help ISP managers make faster, smarter operational decisions. By capturing rich PON performance data directly from Hitron ONTs and ONUs, the platform enables early detection of issues, proactive maintenance, and more predictable service quality at scale. And because Hitron's solutions support open industry standards, this telemetry can also be integrated into many existing ACS systems—giving operators the flexibility to manage their network through HitronCloud or their current management infrastructure.

SPECIFICATIONS

NOVA2313

Interfaces

- 1x SC/APC 10G Optical Port
- 1x RJ-45 100M/1/2.5/5/10GBASE-T Ethernet Port
- 3x RJ-45 100M/1G BASE-T Ethernet Port

xPON

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 G987.2 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

Routing Support

- Protocol Support: IGMP v3 for IPTV service capability
- MAC Address Filtering (IPv4/IPv6)
- IP Source/Destination Address Filtering (IPv4/IPv6)
- IP over Ethernet (IPoE)
- Point-to-Point Protocol over Ethernet (PPPoE)
- DHCP and TFTP clients (IPv4/IPv6)
- DHCP Server supports RFC 1541 (IPv4)
- DHCPv6 obtains Prefix from DHCPv6 Server through Prefix Delegation
- DNS Proxy
- Port Forwarding and DMZ
- UPnP
- DSLite Support for IPv4 In-home Support with IPv6 Backbone
- 6RD Support for Quick IPv6 Deployment over IPv4 Backbone
- RIPv2 for Static IP Support

Network Security

- Firewall with Stateful Inspection (IPv4/IPv6)
- Hacker Intrusion Prevention and Detection
- Application Content Filtering (IPv4/IPv6)
- Complete NAT Software Implemented as per RFC 1631 with Port and Address Mapping (IPv4)
- Port Blocking
- Keyword Filtering
- Device Filtering
- Instant Device Pause

SPECIFICATIONS

NOVA2313

Management

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

Mechanical

- LEDs: Power, Alarm, PON
- Factory Default Reset Button
- Dimensions: 51.90mm (H) x 179.95mm (W) x 153.45mm (D)

Electrical

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

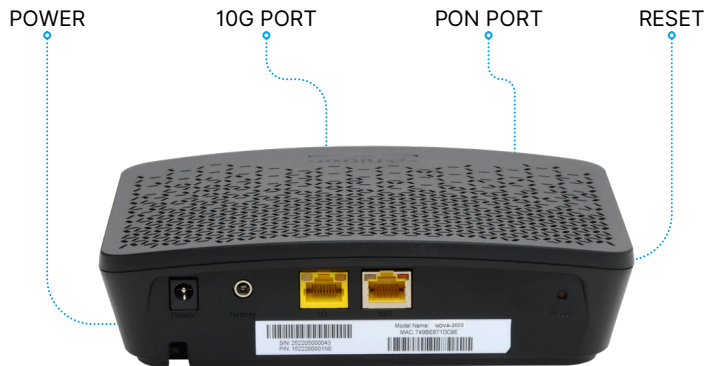
Environmental

- 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

- 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
- 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
- CE

NOVA2313 Ports



NOVA2313 LEDS

