



# 10G xPON ONU with Voice (Optional)



## NOVA-2204

The NOVA-2204 is a powerful ONU solution to provide high-speed Internet access for residential and business customers. With a 10 Gigabit PON fiber interface, this powerful solution delivers speeds up to 8.5 Gbps downstream and 8.4 Gbps upstream.

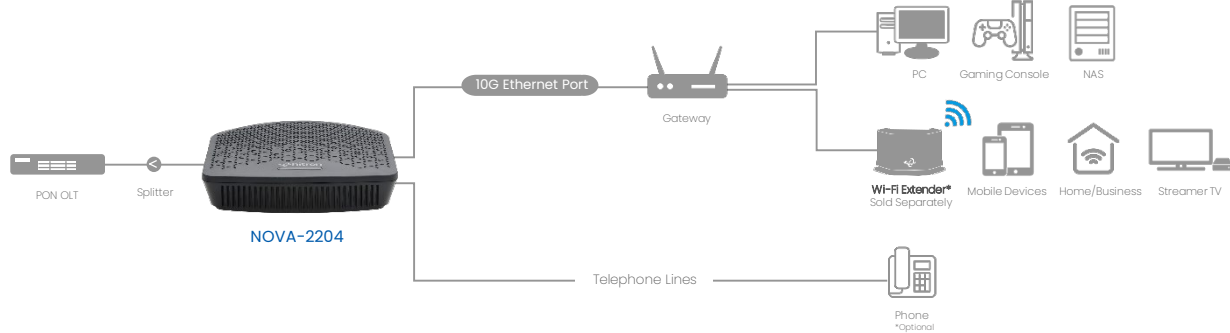
 IEEE 802.3av 10G-EPON compliant	 Ultra-fast 10GigE wired ports	 HD Voice Port *Optional
 DOCSIS DPoE 2.0 compliant		

Advanced feature

### 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 100/1000/2.5G/5G/10GBASE-T Ethernet port
- One 10/100/1000BASE-T Ethernet port
- Built-in fiber tray
- Two FXS VoIP ports
- Optional battery back-up

### Application



# Specifications

NOVA-2204

## xPON Uplink

- 1x SC/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 G.987.2 XG-PON
- Compliant with ITU-T G.9807.1 XGS-PON

## Advanced Features

- 10G-EPON (Choice of Protocol)
  - IEEE 802.3av (Clause 77) Compliance
  - IEEE 802.3ah (Clause 64) Compliance
  - CTC V3.0 specifications
  - 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 (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/8021p/TC Arbitrary Mapping to Queues and Flows)
- Per Flow Packet Policing and Per Queue Traffic Shaping
- Customizable QoS (with WRED) and powerful ACL support
- Customer specific VoIP support
  - SIP, MGCP, Packet cable 2.0

## Interfaces

- 1x SC/APC optical port 10G xPON
- 1x RJ-45 10/100/1000/2.5G/5G/10G BASE-T
- 1x RJ-45 10/100/1000BASE-T
- 2x RJ-11 FXS
- 1x 3.5mm jack for optional battery back-up
- 1x DC 12V Power Jack

## 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: 51.88mm (H) x 179.95mm (W) x 153.39mm (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

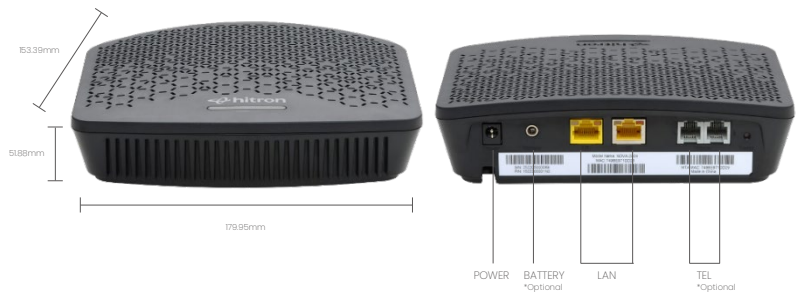
- Operating Temperature: 0°C (- 32°F) ~ 40°C (104°F)
- Operating Humidity: 5% ~ 95% (Non condensing)
- Storage Temperature: -40°C (- 40°F) ~ 80°C (176°F)

## Optional Accessories

- EBBU-0014: External Battery Back-up (24h)
- Replacement Batteries

## Regulatory Compliance (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



\*10Gbps are theoretical speeds. Speeds measured in laboratory settings are 8.5 Gbps downstream and 8.4 Gbps upstream. Specifications subject to change without further notice. Product photo may differ. Trademarks owned by Hitron Technologies Inc. © 2022 Hitron Technologies Inc. All rights reserved.