



GPON

with Wi-Fi 6 and Voice HGU

NOVA-1214



The NOVA-1214 is a powerful ONU solution to provide high-speed Internet access for residential and business customers. Its 4 Giga ports delivers speed up to 2.48Gbps downstream / 1.24Gbps upstream based on 2.5 Gigabit GPON fiber interface.



Advanced features

Key Features

- ITU-TG.984x GPON Compliant
- Wi-Fi 2x2 5GHz 802.11ax and 2x2 2.4GHz 802.11ax dual band concurrent internal antennas
- 16 SSIDs (8 SSIDs per radio)
- Individual configuration for each SSID (security, bridging, routing, firewall and Wi-Fi parameters)
- 4 100/1000Mbps BASE-T Ethernet port
- 2 FXS port

Application



Specifications

NOVA-1214

xPON Uplink

- ITU-TG.984.4 OMCI
- 1x SC/APC Connector, Single Mode Fiber
 - TX Wavelength: 1260 nm
 - ODN Class C
 - Launched power 2-7dBm
- RX wavelength: 1480 nm
- ODN Class C
- Minimum Sensitivity -27dBm
- Minimum Overload -8 dBm

Wireless

- 802.11a/b/g/n/ac/ax
- 2T2R 2.4GHz (2412MHz-2462MHz) 802.11ax MU-MIMO + 2T2R 5GHz (5180MHz-5240MHz) 802.11ax dual band concurrent with 574Mbps+2402Mbps PHY data rate
- 20/40/80/160MHz channel bandwidth
- Up to 8 SSIDs for each frequency
- Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES), WAPI, WPA3-PSK
- QoS: WMM/WMM-PS
- WPS (Wi-Fi Protected Setup) PBC, PIN
- Fast roaming: 802.11r/k/v and Band Steering (BS)

Voice (NOVA-1214)

- Protocol support: SIP & IMS
- Codec: G.711 G.729
- RTP, RTCP

Routing Support

- Protocol support: IGMP v3 for IPTV service capability
- MAC address filtering IP source/destination address filtering
- DHCP, TFTP and TFTP clients
- DHCP server supports RFC 1541
- Firewall with stateful inspection
- Hacker intrusion prevention and detection
- Application content filtering
- Complete NAT software implemented as per RFC 1631 with port and address mapping

Interfaces

- 1x SC/APC optical port 1.25G/2.5G
- 4x RJ-45 10/100/1000 BASE-T
- 2x RJ-11 FXS
- 1x DC 12V Power Jack
- 1x USB 2.0

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, Alarm, GPON, WIFI, Phone, WPS and USB
- WPS button
- Factory default reset button
- Dimensions: 58mm(W)x98mm(H)x30mm(D)
- Net weight: 502g

Electrical

- Input Power: 12VDC
- Power Consumption: <28W
- Surge Protection: Ethernet RJ-45 sustains 1KV

Environmental

- Operating Temperature: 0°C (-32°F) - 45°C (113°F)
- Operating Humidity: 0% - 90% (Non condensing)
- Storage Temperature: -40°C (-40°F) - 80°C (176°F)

Models

- NOVA-1214: GPON WIFI 6 HGU with FXS
- NOVA-1210: GPON WIFI 6 HGU

Regulatory Compliance (Planned)

- RoHS compliant

