HSGQ-ONU X421AX

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Variants

UPC APC

Details

HSGQ-X421AX UPC WiFi 6 XPON ONU

GPON / EPON Adaptive • WiFi 6 AX3000 • 4× Gigabit LAN • 2× POTS • USB 3.0 • VoIP

Product Overview

The **HSGQ-X421AX UPC** is a high-performance **GPON / EPON adaptive WiFi 6 ONU** designed for FTTH broadband, voice, IPTV and high-speed home or enterprise network applications.

It combines **WiFi 6 AX3000, 4 Gigabit Ethernet ports, 2 POTS voice ports, USB 3.0 and XPON optical access** in one device, with support for IPv4 / IPv6, TR069, OMCI, VLAN, QoS, NAT and multiple VoIP protocols.

Quick Specifications

Model: HSGQ-X421AX
PON Type: GPON / EPON Adaptive
Optical Interface: SC-UPC / SC-APC
WiFi: WiFi 6 AX3000
Ethernet: 4 × 10/100/1000M RJ45
Voice: 2 × POTS / RJ11
USB: 1 × USB 3.0
Transmission Distance: Up to 20KM

WiFi 6 AX3000

2.4GHz Speed
Up to 574Mbps

5GHz Speed
Up to 2402Mbps

WiFi Standards
IEEE 802.11 a/b/g/n/ac/ax

Multi-SSID
Supports up to 4 SSIDs

Channel Selection
Automatic channel selection supported

SSID Control
Supports hidden SSID

Wireless Security
64/128-bit WEP, 802.1X, WPA and WPA2

Key Features

? Device-based rate limitation and bandwidth control
? IEEE 802.3ah and ITU-T G.984.x compliant
? ONU auto-discovery, link detection and remote software upgrade
? Dynamic Bandwidth Allocation (DBA)
? Data encryption, multicast and port VLAN isolation
? VLAN configuration, port binding and port forwarding
? QoS and ACL packet filtering
? Power-off alarm and link problem detection
? TR069 / ACS remote configuration
? PPPoE / DHCP Server / IPTV / POTS / NAT
? IPv4 / IPv6 supported

Voice & Service Functions

VoIP Protocols: SIP, H.248, MGCP
POTS Ports: 2 × RJ11
Three-Party Call: Supported
POTS Line Test: GR909 Supported
Fax: T.38 Supported
Modem: High-speed Modem up to 56kbps
Voice Codecs: ITU-T G.711, G.723.1, G.729
Echo Cancellation: ITU-T G.168-2002, up to 128ms
Additional Services: Call Forwarding, Call Waiting, Hotline, Alarm Clock, Abbreviated Dialing

Optical Specifications

GPON
Upstream: 1.25Gbps
Downstream: 2.5Gbps
Receive Optical Power: -7 to -28dBm
Transmit Optical Power: 0.5 to 5dBm

EPON
Upstream: 1.25Gbps
Downstream: 1.25Gbps
Receive Optical Power: -7 to -27dBm
Transmit Optical Power: 0 to 4dBm

Interfaces

Ethernet: 4 × 10/100/1000M RJ45
Voice: 2 × RJ11 POTS
USB: 1 × USB 3.0
PON: 1 × GPON / EPON Adaptive Interface
Optical Connector: SC-UPC / SC-APC

Management

WEB
TELNET
TR069
OMCI
OAM

Physical & Power

Dimensions: 186 × 136 × 33.5mm
Input Power: 12V / 1.5A DC
Power Interface: 2.1mm / 5.5mm
Power Consumption: 12W

Environmental

Operating Temperature: 0°C to +60°C
Operating Humidity: 10% – 85%, Non-condensing
Storage Temperature: -40°C to +80°C
Storage Humidity: 5% – 95%, Non-condensing

LED Indicators

POWER: Power status
PON: ONU registration status
LOS: Optical signal status
LAN: Ethernet connection / data activity
2.4G: 2.4GHz WiFi status
5G: 5GHz WiFi status
NET: Internet access status
WPS: WPS connection status
VOIP1 / VOIP2: Voice account registration status
USB: USB link status

Applications

FTTH Home Broadband
GPON / EPON Access Networks
WiFi 6 Home & Office Networks
IPTV Deployment
VoIP / POTS Service
ISP Customer ONU
Apartment & Enterprise Broadband

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