

HSGQ-ONU X421AX

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Variants

UPC APC

Details

HSGQ-X421AX Voice Service Function:

With the heartbeat function, support the main soft exchange platform

Support high/low speed mode transparent transmission, T38 two-fax

Support high-speed Modem (56 kbps) dial access; support RFC2833 and redundant RFC2833, ringing, MD5 certification, call forwarding, call waiting, the hotline, alarm clock, abbreviated dialing and other value-added services;

Support SIP (compatible with IMS), H.248, MGCP-3 VoIP protocol, and the soft switch platform, the mainstream can be good intercommunication

Support 2 POTS interface and the three-party call; three party support local mixing

Support POTS port GR909 line test function

Support dynamic PPPoE, DHCP and static IP.

Support ITU-T G.711, G.723.1, G.729 and other three kinds of compression algorithm; echo cancellation conforming to ITU-T G.168-2002; and an echo canceler for the longest 128ms

7x24-hour call loss is less than or equal to 0.01%

WiFi6 AX3000:

574Mbps at 2.4GHz+2402Mbps at 5GHz

Full IEEE802.11b/g/ac/ax legacy compatibility with enhanced performance

Support multi-SSID (Maximum 4 SSID)

Support automatic channel selection

Support hiding SSID

Support wireless security of 64/128 bit WEP, 802.1x, WPA and WPA2

Key Features of HSGQ-X421AX:

Support device-based rate limitation and bandwidth control

In compliance with IEEE802.3ah 802.3ah and the ITU-T G.984.x standard

WiFi series meet 802.11 a/b/g/n/ac/ax technical standards

Up to 20KM transmission distance

Support data encryption, group broadcasting, port Vlan separation, etc.

Support Dynamic Bandwidth Allocation (DBA)

Support ONU Auto-discovery, link detection, and remote upgrade of software

Support port VLAN configuration

Support power-off alarm function; easy for link problem detection

Support QOS configuration

Support port binding

Support port forwarding

Support ACL to configure data packet filter flexibly

Specialized design for system break-in prevention to maintain stable system

Support software online upgrading

Support TR069 for ACS (Auto Config Server)

Support PPPoE/DHCP Server/IPTV/POTS/NAT

Support IPv4/IPv6

Technical Specifications for HSGQ-X421AX:

Category	Specification
Module	
4-10/100/1000M RJ45 port	4 ports supporting 10/100/1000 Mbps RJ45 connections
2 POTS	2 POTS ports (RJ11 connectors)
User Interface	
Ethernet	4-10/100/1000M auto-negotiation, Full/half duplex mode, RJ45 connector, Auto MDI/MDI-X
	1 x USB 3.0 port
	1 EPON & GPON adaptive interface
	WIFI6 AX3000 support
Optical Interface	EPON & GPON modes are adaptive
Interface Type	SC-UPC/SC-APC
Security	ONU authentication mechanism

Category	Specification
Network Coverage	20 KM
GPON	Upstream 1.25 Gbps and Downstream 2.5 Gbps
Optical Receive Power	-7 dBm to -28 dBm
Transmitting Optical Power	0.5 dBm to 5 dBm
EPON	Upstream 1.25 Gbps / Downstream 1.25 Gbps
Optical Receive Power	-7 dBm to -27 dBm
Transmitting Optical Power	0 dBm to 4 dBm
Physical Dimensions	
Size	186 mm (L) x 136 mm (W) x 33.5 mm (H)
Environmental	
Operating Temperature	0°C to 60°C
Operating Humidity	10% to 85% (non-condensing)
Storage Temperature	-40 °C to 80 °C
Storage Humidity	5% to 95% (non-condensing)
Power Supply	
Input Voltage	12V / 1.5A DC
Power Interface Size	2.1 mm / 5.5 mm
Power Consumption	12W
Management	WEB/TELNET/TR069/OMCI/OAM
Other Interfaces	
2 RJ11	Max distance: 1 km
CAN Port	Balanced Ring, 55V RMS

Product Interfaces and Indicators Definitions:

Interface/Indicator	Status	Definition
POWER	On	The ONU is powered on
	Off	The ONU is powered off
POUNDS (ONU Register)	On	Successfully registered to OLT
	Blinking	I am in the process of registering to OLT
	Off	I failed to register to OLT
THE (Optical Signals)	On	Optical link sensitivity is lower than receiver sensitivity
	Off	Optical is normal
AND (LAN Port Status)	On	Ethernet connection are normal
	Blinking	Data is being transmitted
	Off	Ethernet connection is not set up
2.4G (2.4G WiFi Status)	On	WiFi function is open
	Blinking	Data is being transmitted
	Off	WiFi function is closed
5G (5G WiFi Status)	On	WiFi function is open
	Blinking	Data is being transmitted
	Off	WiFi function is closed
NET (Internet Status)	On	ONU can access internet
	Off	ONU cannot access internet
WPS (WPS Status)	On	Terminal has connected
	Blinking	Terminal is connecting
	Off	terminal is not connected
VOIP1 (VOIP Status)	On	Voice account registered
	Off	Voice account not registered
VOIP2 (VOIP Status)	On	Voice account registered

Interface/Indicator	Status	Definition
	Off	Voice account not registered
USB (USB Status)	On	USB is linked
	Off	USB is not linked

HSGQ related products

[HSGQ X410DW ONU](#)

[HSGQ X200DW ONU](#)

[Faceplate ONU XPON HSGQ](#)

[HSGQ - F32F POF](#)

[HSGQ F881](#)