

# **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
<b>Module</b>	
4-10/100/1000M RJ45 port	4 ports supporting 10/100/1000 Mbps RJ45 connections
2 POTS	2 POTS ports (RJ11 connectors)
<b>User Interface</b>	
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
<b>Optical Interface</b>	EPON & GPON modes are adaptive
Interface Type	SC-UPC/SC-APC
<b>Security</b>	ONU authentication mechanism

Category	Specification
<b>Network Coverage</b>	20 KM
<b>GPON</b>	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
<b>EPON</b>	Upstream 1.25 Gbps / Downstream 1.25 Gbps
Optical Receive Power	-7 dBm to -27 dBm
Transmitting Optical Power	0 dBm to 4 dBm
<b>Physical Dimensions</b>	
Size	186 mm (L) x 136 mm (W) x 33.5 mm (H)
<b>Environmental</b>	
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)
<b>Power Supply</b>	
Input Voltage	12V / 1.5A DC
Power Interface Size	2.1 mm / 5.5 mm
Power Consumption	12W
<b>Management</b>	WEB/TELNET/TR069/OMCI/OAM
<b>Other Interfaces</b>	
2 RJ11	Max distance: 1 km
CAN Port	Balanced Ring, 55V RMS

## Product Interfaces and Indicators Definitions:

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

Interface/Indicator	Status	Definition
	Off	Voice account not registered
<b>USB (USB Status)</b>	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](#)