



KS-HG610

AX3000 Next-gen Wi-Fi GPON 1*10G+
3*GE+1*POTS ONT

#Version 1.0 by Kosky

KS-HG610

Introduction



KS-HG610 is the cutting-edge next-generation and multi-functions 3000Mbps Wi-Fi 6 wireless XGS-PON ONT with symmetric 10G up-link/downlink speed and strong transmission performance. It adopts the latest powerful chipset solution for amazing ultra-speed online experience and big bandwidth with 1*10G LAN port, 3*GE LAN ports, 1*POTS and 1*USB3.0 interface. For the Wi-Fi standard it supports the new Wi-Fi 6 dual-band of 5GHz 2402Mbps and 2.4GHz 574Mbps to bring stable and cool-fast wireless speed and signal coverage. 4*6dBi high-gain antennas together with MU-MIMO+Beam-forming technology brings high-quality signal delivery and concurrent wireless transmission without lag or latency. At the same time KS-HG610 has applied rich features and new technologies such as TR060, Beamforming, QoS, Parental Control, TWT, WPA3, security center and etc. For the compatibility it is capable to well work together with most Third-party OLTs platforms to have smooth deployment. In one word KS-HG610 is ideal device for the new-technology fans to experience the excellent combination of 10G PON and Wi-Fi 6 technology.

Highlights

- √ Adopts of latest powerful dual-core and multi-threaded processor for a superior performance
- √ Multiple speed and port options of 1*10G LAN port+3*GE LAN ports+1*POTS port+1*USB3.0 port
- √ 802.11ax Wi-Fi 6 dual-band of 2.4GHz speed upto 574Mbps and 5GHz speed upto 2402Mbps
- √ Support 10Gbps/10Gbps uplink/downlink speed to meet intensive-bandwidth deamand environment
- √ Adoption of MU-MIMO+Beamforming technology to bring smooth experience under high-density network
- √ 4*6dBi high-gain antennas assures the wireless signal transmission distance and strong penetration ability
- √ Support latest WPA3 wireless encryption protocol to bring you the secure internet environment
- √ Good compatibility with industry mainstream third-party OLTs platform for smooth application

Key Features

◆Adoption of latest powerful performance pioneer chipset solution

The dual-core and multi-threaded processor brings high-performance, low-power consumption and high integration to guarantee the device's performance and stability.

◆Multiple speed and function ports to fulfill your wired and wireless requirements

Multiple ports of 1*10G LAN+3*GE LAN+1*POTS+1*USB to meet the various requirements of wired connection, wireless experience, voice and USB functions.

◆Comply with the new-gen 802.11ax Wi-Fi 6 protocol

802.11ax Wi-Fi 6 dual-band of 5GHz 2402Mbps and 2.4GHz 574Mbps to bring stable and cool-fast wireless speed and signal coverage

◆4*6dBi enhanced antennas bring powerful wireless signal quality

4*6dBi external high-gain antennas make you no longer worry about the distance or house structure and just enjoy the Wi-Fi signal wherever you are.

◆Good compatible with mainstream third-party OLTs platform

XGS-PON is consistent with the original GPON standard in data format and fiber protocol and compatible with the current PON technology.

◆Adoption of advanced MU-MIMO+Beamforming and OFDMA technology

All these latest technologies can definitely make smooth high-density networking scenarios without latency and congestion and just enjoy the high-speed experience for VR/AR, 4K video, 3D gaming, real-time conference and etc.

◆EasyMesh function for simple and seamless network expansion

EasyMesh function enables simple one-touch interconnection between devices having the EasyMesh function to easily extend the current wireless coverage and penetration.

Specification

| Product Information | |
|---------------------|---|
| Model | KS-HG610 |
| Dimensions | 225*139*42mm |
| General | |
| Protocol Standard | ITU-TG.987. x/988 |
| Distance | Maximum 20Km |
| Transmission Rate | Upstream 9.953Gbps and downstream 9.953Gbps |
| Wi-Fi Standard | IEEE802.11b/g/n/a/ac/ax |
| Singal Rate | Upto 2402Mbps at 5GHz and upto 574Mbps at 2.4GHz |
| Working Frequency | Dual-band of 2.4GHz and 5GHz |
| PON TX Power | 2~6dBm at 1270nm |
| PON RX Sensitivity | <-29dBm at 1577nm |
| Wi-Fi Security | WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK, WPA3 |
| Power | ≤18W |
| Interface | 1xSC/UPC or 1xSC/APC (optional) |
| | 1x10G Lan, 3xGigabit Lan |
| | 1xPOT Port(RJ11) |
| | 1x USB3.0 |
| Button | 1xWPS/Easy Mesh |
| | 1xReset |
| | 1xWiFi |
| Power Supply | DC12V 1.5A |
| Antenna | 4*6dBi external high-gain antennas |
| Software | |
| WAN Mode | Dynamic IP/Static IP/PPPoE |
| DHCP | Server, Client, DHCP Client List, Address Reservation |
| Quality of Service | WMM and bandwidth control |
| Port Forwarding | Virtual Server, Port Triggering, UPnP, DMZ |

| | |
|------------------------------|--|
| VLAN | 802.1Q tag VLAN of VLAN transparent mode/VLAN translation mode/VLAN trunk mode |
| Wi-Fi Service | Support EasyMesh |
| Firewall | DoS, SPI firewall, IP address Filter/MAC address Filter/ Domain filter, IP and MAC address binding |
| Management | Access Control |
| | Local Management |
| | Remote Management |
| Internet Protocol | IPv4 and IPv6 |
| Access Control | Parental control, local management control, host list, access schedule and rule management |
| CATV | |
| Optical Receiving | -15~+2dBm |
| AGC Range | -12~-2dBm |
| Fiber Return Loss | >14dB |
| Wave Length | 1100~1600nm |
| Connector | RF |
| C/N | ≥45dB |
| C/CTB | ≥62dB |
| C/CSO | ≥61dB |
| BW | 40~1000MHz |
| Output Level | ≤ 82 dBμV |
| Others | |
| Operating Temperature | -5℃ ~ 50℃ |
| Storage Temperature | -40℃ ~ 70℃ |
| Operating Humidity | 10%~90% non-condensing |
| Storage Humidity | 5%~95% non-condensing |
| Certifications | CE/RoHS |

Packaging List

| Material | QTY |
|----------------|-----|
| KS-HG610 | 1 |
| Ethernet Cable | 1 |
| QIG | 1 |
| Power Adapter | 1 |

Relevant Useful Products

| Model | Description |
|-------------|---|
| KS-WE1800 | 1800M Wi-Fi 6 New-gen Wireless Extender |
| KS-AX3000 | 3000M Wi-Fi 6 New-gen Wireless Router |
| KS-ES0402HS | 6-Port 2.5G Desktop Ethernet Switch 4-Port 2.5G+2*10G SFP Uplink |

Note: For more information about the recommended products you can check our website or freely contact our product R&D team by E-mail: support@koskyglobal.com

Exceed Your **Expectation**



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