ONU XPON 4GE+WIFI6(AX3000)+TV

GP6166W

KingType

Product overview

The GP6166-W ONU is a xPON WiFi6 AX3000 HGU that complies with ITU-T, IEEE and industry standards. Fully considering the rapid development of triple-play business needs in existing cable TV networks, meeting the diverse value-added business needs of users, can quickly enhance the market competitiveness of cable TV operators and meet the application of broadcasting and television FTTH.

Features

- Support fiber optic line switching technology, adaptive EPON or GPON OLT automatically.

- EPON mode supports a symmetrical 1.25Gbps PON transmission rate for uplink and downlink, while GPON mode supports an uplink 1.25Gbps and downlink 2.5Gbps PON transmission rate. Efficient bandwidth utilization which support operators providing reliable service to their users.

- It uses WiFi 6 technology and enables users to achieve ultra wideband access, high performance and wide coverage. Its high-performance forwarding capability effectively ensures the business experience of voice, data, and 4K/VR, providing customers with ideal all-optical access solutions and future oriented business support capabilities.

- It can be suitable for various business application scenarios and can be flexibly expanded and upgraded online according to business needs.

Technical specification

User interface	4 fixed 10/100/1000M BASE-T adaptive RJ45 interfaces 1*USB3.0
PON interface	Physical Interface:SC/UPC EPON mode: uplink 1.25Gbps downlink 1.25Gbps transmission rate GPON mode: uplink 1.25Gbps downlink 2.5Gbps transmission rate Network coverage radius: 20 kilometers High sensitivity(optical receiver): not less than -28dBm
Standards	ITU-T G.984.X, ITU-T G.988
WAN characteristics	Support routing, bridging, routing+bridging WAN Support PPPoE mode Support static IP Support for dynamic IP

DHCP Server	Support DHCP Server
NAT	Support for dynamic address translation Support DMZ Support port forwarding
DNS	Support DNS Proxy
Wi-Fi(AX3000)	IEEE802.11b/g/n/ac/ax 2.4GHz：20/40MHz 5GHz：20/40/80/160MHz 2.4GHz：574Mbps 5GHz：2402Mbps
Safety characteristics	Support firewall functionality Support DOS attack protection Support IP address filtering Support port filtering Support MAC address filtering Support URL filtering
Management	Multiple management methods such as CLI, Web, TELNET, TR069, OMCI, etc. Software upgrade and bootrom upgrade can be done through TFTP and FTP Local or server syslog recording system logs Command prompt in both Chinese and English Network testing tools such as ping and traceroute Debug output debug Supports routing and bridging functions
Dimensions	170*118*36mm
Power Consumption/Supply	<16W, External 12VDC, 1.5A
Environmental requirements	Working environment: -10℃~+45 ℃; 10% -95% non condensing
	Storage environment: -40 ℃~+80 ℃; 10% -95% non condensing

Optical Receiver Performance Parameters

Optical Receive Range	-18~0（dBm）
AGC Range	-15~-5（dBm）
Frequency Range	47~1000（MHz）
Output Level	75dBμv
MER	≥33dB