HN8346X6-C Datasheet

Wi-Fi 6 XG-PON Gigabit Intelligent GatewayHN8346X6- C

Product Overview

HN8346X6-C is a Wi-Fi 6 XG-PON smart gateway device, providing 1 telephone interface, 4 Gigabit Ethernet interfaces, 1 USB port and 2.4GHz & 5GHz Wi-Fi functions. Flexible application, supporting plug-and-play, remote diagnosis, green energy saving and other features.

HN8346X6-C supports XG-PON or asymmetric 10G EPON technology enables ultra-broadband access for home users in FTTH networking scenarios. Its high-performance forwarding capability effectively guarantees the service experience of voice, data and high-definition video, providing an ideal terminal solution and future-oriented service support capabilities for FTTH deployment.



Hardware specifications

Dimensions (H x W x D)	35mm x 155mm x 105mm (excluding antenna and foot pads)	**Power supply**	12V DC, 1.5 A
Weight (without adapter)	About 250g	**Maximum power consumption**	18W
Operating temperature	0°C ~ +40°C	**Network side interface**	XG-PON / Asymmetric 10G EPON
Working environment humidity	5% RH ~ 95% RH, non-condensing	**User side interface**	1 phone + 4 Gigabit + 1 USB + 2.4GHz & 5GHz Wi-Fi 6
Power adapter rated input range	170 ~ 240 V AC, 50/60 Hz	**Fiber Optic Interface**	SC/UPC
Indicator Lights	Power/Registration/Optical Signal/1~4 Gigabit/Telephone /USB/ Wireless	**storage**	256MB flash, 512MB RAM

Interface parameters

XG-PON / Asymmetric 10G EPON

- XG-PON: Class N1/N2a/E1
- Asymmetric 10G EPON： Class PRX 30
- Receiving sensitivity:

  XG-PON: -28dBm

  Asymmetric 10G EPON: -28.5dBm
- wavelength:

  Upstream 1260-1280nm , Downstream 1575-1580nm (XG-PON/asymmetric 10G EPON)
- Supports Band Stop Filter (WBF)
- GEM Flexible mapping between Port and TCONT
- Authentication method:

  SN/Password/SN + Password / bidirectional authentication based on OMCI (XG- PON);

  MAC/Key/LOID (asymmetric 10G EPON)
- Support uplink and downlink FEC (Forward Error Correction)
- DBA that supports SR and NSR
- Uplink and downlink rates:

  Upstream 2.5Gbps, downstream 10Gbps (XG- PON);

  Uplink 1.25Gbps, downlink 10Gpbs (asymmetric 10G EPON)

Gigabit Ethernet port

2.4GHz&5GHz Wi- Fi

- IEEE 802.11 b/g/n/ax (2.4GHz)
- IEEE 802.11 a/n/ac/ax(5GHz)
- 2×2 MIMO (2.4GHz & 5GHz)
- Antenna gain : 5dBi
- WMM (Wi-Fi Multi Media
- Multiple SSIDs
- WPS
- Air interface rate:

  574 Mbit/s(2.4GHz);

  2402 Mbit/s(5GHz)
- Beamforming
- Band steering
- DL OFDMA
- DL MU- MIMO
- 1024 QAM
- 160MHz bandwidth
- WPA3

• MAC address restriction • MAC address learning • Support 10Mbit/s, 100Mbit/s, 1000Mbit/s adaptive	
Telephone port	**USB interface**
• Maximum number of phones that can be connected to the port : 4 • G.711A/u, G.729a/b, G.722 codec • Support T.30/T.38/G.711 fax • DTMF • Emergency call (SIP protocol)	• USB2.0

Product Features

Home Network Management	Smart Business	Intelligent Operation and Maintenance	Layer 3 Features
• Visual management • User defined bandwidth allocation • Band steering • Wi-Fi Optimization & Wi-Fi Roaming • Wi-Fi Operation and Maintenance • Intelligent identification and anti-interference	• Anti-freeze network • Wi-Fi Timer Switch • Wi-Fi Smart Sharing: Portal, 802.1x authentication based on Soft GRE Wi-Fi **Smart connectivity** • Wi-Fi Smart Coverage • SIP/H.248 Adaptive • Any port Any service • Parental Controls	• IPTV video quality diagnosis (VMOS&eMDI) • OLT -initiated rogue ONT detection and isolation • Call simulation/internal and external line testing • PPPOE/DHCP simulation test • One-click diagnosis (Web)	• PPPoE / Static IP / DHCP • NAT/NAPT • Port forwarding • ALG,UPnP • DDNS/DNS server/DNS Client • IPv6/IPv4 dual stack , DS-Lite • Static routing/default routing • One WAN carries multiple services
Multicast	**QoS**	**O&M**	**Safety**
• IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping	• Ethernet port speed limit • 802.1p Priority • SP/WRR/SP+WRR • Broadcast message rate limit	• OMCI/Web UI/TR069 • Variable length OMCI • Software dual backup and rollback	• SPI Firewall • Anti -DOS attack • MAC/IP address filtering **Power saving** • Indicator light energy saving

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