

EG8041X6-10 Datasheet 01(7dBi)

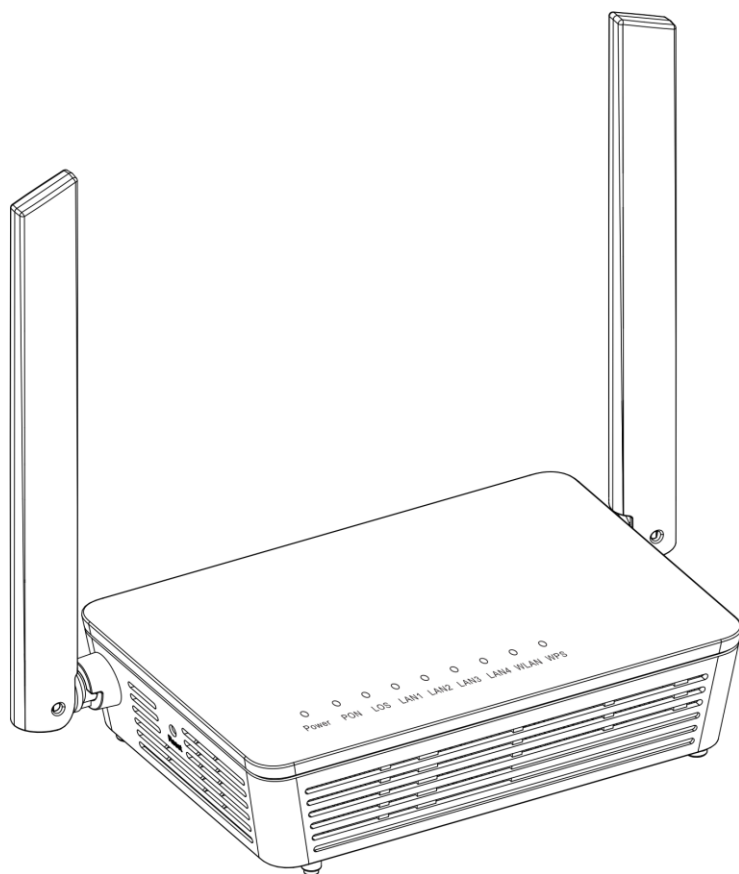
Huawei intelligent GPON and Wi-Fi 6 routing-type ONT

Overview

The Huawei OptiXstar EG8041X6-10 is an intelligent GPON and Wi-Fi 6 routing-type ONT. It uses the GPON Wi-Fi 6 technology to implement ultra-broadband access, high performance and wide coverage for users. The high forwarding performance ensures the user experience of data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

It provides four GE ports and 2.4 GHz&5 GHz Wi-Fi 6 function.

- Next generation Wi-Fi 6 technology
- Smart service
- Smart interconnection
- Smart O&M



Device Parameters

Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	4xGE+2.4 GHz&5 GHz Wi-Fi 6
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12V DC, 1 A	Indicators	Power/PON/LOS/LAN/WLAN/WPS
Static power consumption	5.7 W	Weight	About 238 g
Maximum power consumption	11.7 W	Dimensions (H x W x D) (without external antenna and pads)	35 mm x 155 mm x 105 mm
Memory	128 MB Flash, 256 MB RAM		

Interface Parameters

GPON port	WLAN
- Class B+ - Receiver sensitivity: -27 dBm - Overload optical power: -8 dBm - Wavelengths: 1310 nm upstream, 1490 nm downstream - Wavelength blocking filter (WBF) of G.984.5 - Flexible mapping between GEM Port and TCONT - GPON: consistent with the SN or password authentication defined in G.984.3 - Bi-directional FEC - SR-DBA and NSR-DBA	- IEEE 802.11 b/g/n/ax (2.4GHz) - IEEE 802.11 a/n/ac/ax (5GHz) 2 × 2 MIMO (2.4GHz) 2 × 2 MIMO (5GHz) - Antenna gain: 7 dBi* (5 GHz), 5 dBi (2.4 GHz) - WMM/Multiple SSIDs/WPS - Air interface rate: 574 Mbit/s (2.4GHz), 2402 Mbit/s (5GHz) - Beamforming - Band steering - UL/DL OFDMA - UL/DL MU-MIMO 1024QAM 160MHz frequency bandwidth - DCM - BSS Coloring - WPA3
Ethernet port	
- Ethernet port-based VLAN tags and tag removal 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission - QinQ VLAN - Limit on the number of learned MAC addresses - MAC address learning - Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s	
*: The 7 dBi antennas are applicable to scenarios where the transmit power is not limited. If the local laws and regulations stipulate that the transmit power must be lower than 31 dBm, the coverage performance of 7 dBi antennas may deteriorate compared with that of 5 dBi antennas in some scenarios. Select applicable products based on local laws and regulations.	

Product Function

Smart interconnection	Smart service	Smart O&M	Common O&M
Smart Wi-Fi coverage	Scheduled Wi-Fi	IPTV video quality	OMCI/Web UI/TR069

- Any port any service - Parental control	shutdown Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing	diagnosis - eMDI - Rogue ONT detection and isolation from the OLT - PPPoE/DHCP simulation testing - WLAN emulation	- Variable-length OMCI messages - Dual-system software backup and rollback
Multicast	Security	Layer 3 features	Home network feature
- IGMP v2/v3 proxy/snooping - MLD v1/v2 snooping	- SPI firewall - Filtering based on MAC/IP/URL addresses	- PPPoE/Static IP/DHCP - NAT/NAPT - Port forwarding - ALG, UPnP - DDNS/DNS server/DNS client - IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI - Static/Default routes - Multiple services on one WAN port	- Visualized home network management - User-defined bandwidth allocation - Wi-Fi optimization & Wi-Fi roaming - Wi-Fi O&M - intelligent identification and anti-interference
Power saving	QoS		
- Indicator power saving - COC V8	- Ethernet port rate limitation 802.1p priority - SP/WRR/SP+WRR - Broadcast packet rate limitation		

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