EG8041X6-10 Datasheet 01(5dBi)

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: -27dBm • 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: 5 dBi • 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	

Product Function

Smart interconnection	**Smart service**	**Smart O&M**	**Common O&M**
• Smart Wi-Fi coverage • Any port any service • Parental control	• Scheduled Wi-Fi shutdown • Smart Wi-Fi sharing: Portal/802.1x	• IPTV video quality diagnosis • eMDI • Rogue ONT detection and	• OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software

		isolation from the OLT	backup and rollback
	authentication; SoftGRE-based sharing	• PPPoE/DHCP simulation testing • WLAN emulation	

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		