

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
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Smart Wi-Fi coverage Any port any service Parental control 	<ul style="list-style-type: none"> Scheduled Wi-Fi shutdown Smart Wi-Fi sharing: Portal/802.1x 	<ul style="list-style-type: none"> IPTV video quality diagnosis eMDI Rogue ONT detection and 	<ul style="list-style-type: none"> OMCI/Web UI/TR069 Variable-length OMCI messages Dual-system software

	authentication; SoftGRE-based sharing	isolation from the OLT <ul style="list-style-type: none"> • PPPoE/DHCP simulation testing • WLAN emulation 	backup and rollback
Multicast	Security	Layer 3 features	Home network feature
<ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping 	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • Indicator power saving • COC V8 	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 		

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