

EG8041X6-10 Datasheet 01(7dBi)

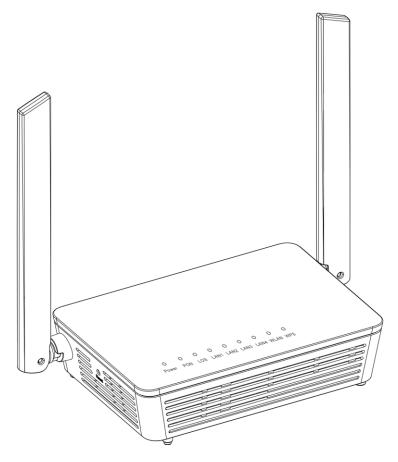
Huawei intelligent GPON and Wi-Fi 6 routing-type ONT

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+	• IEEE 802.11 b/g/n/ax (2.4GHz)		
Receiver sensitivity: -27 dBm	• IEEE 802.11 a/n/ac/ax (5GHz)		
Overload optical power: -8 dBm	• 2 x 2 MIMO (2.4GHz)		
• Wavelengths: 1310 nm upstream, 1490 nm downstream	• 2 x 2 MIMO (5GHz)		
 Wavelength blocking filter (WBF) of G.984.5 	Antenna gain: 7 dBi* (5 GHz), 5 dBi (2.4 GHz)		
Flexible mapping between GEM Port and TCONT	WMM/Multiple SSIDs/WPS		
 GPON: consistent with the SN or password authentication defined in G.984.3 	 Air interface rate: 574 Mbit/s (2.4GHz), 2402 Mbit/s (5GHz) 		
Bi-directional FEC	Beamforming		
SR-DBA and NSR-DBA	Band steering		
Ethernet port	UL/DL OFDMA		
 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 	 UL/DL MU-MIMO 1024QAM 160MHz frequency bandwidth DCM BSS Coloring WPA3 		

^{*:} 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 serviceParental 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 	 Variable-length OMCI messages Dual-system software backup and rollback
Multicast	Security	WLAN emulation Layer 3 features	Home network feature
IGMP v2/v3 proxy/snoopingMLD v1/v2 snooping	SPI firewall Filtering based on MAC/IP/URL addresses	PPPoE/Static IP/DHCPNAT/NAPTPort forwarding	Visualized home network management User-defined
Power savingIndicator power savingCOC V8	Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation	 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 	 bandwidth allocation Wi-Fi optimization & Wi-Fi roaming Wi-Fi O&M intelligent identification and anti-interference

$\textbf{Copyright} \circledcirc \textbf{Huawei Technologies Co., Ltd. 2024. All rights reserved.}$

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions

Trademarks and Permission

₩ HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address:Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website:http://www.huawei.com