

# Huawei OptiXstar EG8010Hv6-20 Datasheet 01

Huawei EG8010Hv6-20, a bridging-type ONT

## Overview

The Huawei OptiXstar EG8010Hv6-20 is a bridging-type ONT used in the Huawei all-optical access solution. It implements ultra-broadband access through the GPON technology. It provides one GE port. The high-performance forwarding capability ensures the service experience of data and HD video services, and provides users with ideal terminal solutions and future-oriented service support capabilities.

- Smart service
- Smart interconnection
- Smart O&M



## Device Parameters

<b>Dimensions (H x W x D) (without pads)</b>	26 mm x 69 mm x 83 mm	<b>System power supply</b>	12 V DC, 1 A
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<b>Weight</b>	About 68 g	<b>Static power consumption</b>	2.05 W
<b>Operating temperature</b>	0°C to 40°C	<b>Maximum power consumption</b>	2.17 W
<b>Operating humidity</b>	5% RH to 95% RH (non-condensing)	<b>NNI</b>	GPON
<b>Power adapter input</b>	100–240 V AC, 50/60 Hz	<b>UNI</b>	1xGE
<b>Optical Connector</b>	SC/APC	<b>Indicators</b>	POWER/PON/LOS/LAN
<b>Memory</b>	128 MB flash, 256 MB RAM	-	-

## Interface Parameters

<b>GPON port</b>	<b>Ethernet port</b>
<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27dBm ~ -29dBm</li> <li>• Wavelengths: 1310 nm upstream, 1490 nm downstream</li> <li>• Wavelength blocking filter (WBF)</li> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• GPON: consistent with the SN or password authentication defined in G.984.3</li> <li>• Bi-directional FEC</li> <li>• SR-DBA and NSR-DBA</li> </ul>	<ul style="list-style-type: none"> <li>• Ethernet port-based VLAN tags and tag removal</li> <li>• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li> <li>• QinQ VLAN</li> <li>• Limit on the number of learned MAC addresses</li> <li>• MAC address learning</li> <li>• Transparent transmission of IPv6 packets at Layer 2</li> </ul>

## Product Function


<b>Smart O&amp;M</b>	<b>Power saving</b>	<b>QoS</b>	<b>Security</b>
<ul style="list-style-type: none"> <li>• Variable-length OMCI messages</li> <li>• Active/Passive rogue ONT detection and isolation</li> <li>• PPPoE/DHCP simulation testing</li> </ul>	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• Power consumption reduction of idle components in power-saving state</li> <li>• PON power reduction</li> </ul>	<ul style="list-style-type: none"> <li>• Ethernet port rate limitation</li> <li>• 802.1p priority</li> <li>• SP/WRR/SP+WRR</li> <li>• Broadcast packet rate limitation</li> <li>• Flow mapping based on the VLAN ID, port ID, or/and 802.1p</li> </ul>	<ul style="list-style-type: none"> <li>• MAC address filtering</li> </ul>
<b>Common O&amp;M</b>	<b>Multicast</b>		
<ul style="list-style-type: none"> <li>• OMCI/Web UI</li> <li>• Dual-system software backup and rollback</li> <li>• Optical link measurement and diagnosis</li> </ul>	<ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• MLD v1/v2 snooping</li> <li>• Fast leave</li> <li>• VLAN tag translation, transparent transmission, and removal for downstream multicast packets</li> <li>• IGMP/MLD protocol packet rate limitation</li> </ul>		

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#### **Huawei Technologies Co., Ltd.**

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

Website: <http://www.huawei.com>