

HG8010N-10 Datasheet

Huawei HG8010N-10, a bridging-type ONT

Overview

The Huawei HG8010N-10 is a bridging-type ONT used in the Huawei all-optical access solution. It implements ultra-broadband access through the GPON technology. It provides 2.5 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

Dimensions (H x W x D) (without pads)	26 mm x 88 mm x 88 mm	System power supply	12 V DC, 1 A
Weight	About 90g	Static power consumption	4.3 W
Operating temperature	0°C to 40°C	Maximum power consumption	5 W
Operating humidity	5% RH to 95% RH (non-condensing)	NNI	GPON
Power adapter input	100–240 V AC, 50/60 Hz	UNI	2.5GE
Optical Connector	SC/APC	Indicators	POWER/PON/LOS/2.5GLAN

Memory	128M flash, 128MB RAM	-	-
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Interface Parameters

GPON port	Ethernet port
- Class B+ - Receiver sensitivity: -27dBm - Wavelengths: US 1310 nm, DS 1490 nm - Wavelength blocking filter (WBF) - 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	- 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 - Transparent transmission of IPv6 packets at Layer 2 2.5GE: Supporting 10 Mbit/s, 100 Mbit/s, 1000 and 2500 Mbit/s auto-adaptation

Product Function

Smart O&M	Power saving	QoS	Security
- Variable-length OMCI messages - Active/Passive rogue ONT detection and isolation - PPPoE/DHCP simulation testing	- Indicator power saving - Power consumption reduction of idle components in power-saving state	- Ethernet port rate limitation 802.1p priority - SP/WRR/SP+WRR - Broadcast packet rate limitation - Flow mapping based on the VLAN ID, port ID, or/and 802.1p	MAC address filtering
Common O&M		Multicast	
- OMCI/Web UI - Dual-system software backup and rollback 802.1ag Ethernet OAM - Optical link measurement and diagnosis - Loopback check		- IGMP v2/v3 snooping - MLD v1/v2 snooping - Fast leave - VLAN tag translation, transparent transmission, and removal for downstream multicast packets - IGMP/MLD protocol packet rate limitation	

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