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	-	-

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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