

EG8112H Datasheet 01

Huawei EG8112H, a routing-type ONT

Overview

The Huawei EG8112H is a routing-type ONT used in the Huawei all-optical access solution. It uses the GPON technology to implement ultra-broadband access for users. It provides one GE port, one POTS port and one CATV port.

The high forwarding performance ensures the user experience of voice, data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

- Smart service
- Smart interconnection
- Smart O&M



Device Parameters

Dimensions (H x W x D) (without pads)	35 mm x 135 mm x 115 mm (Without pads)	System power supply	12 V DC, 1 A
Weight	About 203 g	Static power consumption	4.5 W
Operating temperature	0°C to 40°C	Maximum power consumption	7.5 W
Operating humidity	5% RH to 95% RH (non-condensing)	NNI	GPON
Power adapter input	100–240 V AC, 50/60 Hz	UNI	1xGE+1xPOTS+1xCATV
Optical Connector	SC/APC	Indicators	POWER/PON/LOS/LAN/TEL/CATV
Memory	128 MB Flash, 128 MB RAM		

Interface Parameters

GPON port - GPON: Class B+ - Receiver sensitivity: -27dBm - Overload optical power: -8 dBm - Wavelengths: 1310 nm upstream, 1490 nm downstream - 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 - 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 - GE port supports auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s
POTS port - Maximum ringer equivalence number (REN): 4 - G.711A/μ, G.729a/b and G.722 encoding/decoding - T.30/T.38/G.711 fax mode - DTMF - Emergency calls (with the SIP protocol)	CATV port - Frequency Range 54 MHz to 1000 MHz - Output resistance 75 ohms - Received average optical power: -8 dBm to +2 dBm - RF output power: ≥17dBmV/Ch (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital))

Product Function

QoS - 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	Common O&M - OMCI/Web UI/TR069 - Dual-system software backup and rollback - Optical link measurement and diagnosis	Smart O&M - Variable-length OMCI messages - Active/Passive rogue ONT detection and isolation - PPPoE/DHCP simulation testing - Call emulation, and circuit test and loop-line test	Multicast - IGMP v2/v3 snooping - MLD v1/v2 snooping
Security MAC address filtering	Smart interconnection SIP/H.248 auto-negotiation	Smart service Association of one account with one POTS port	Power Saving - Indicator power saving - COC v9

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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>