EG8141A5 Datasheet 01 (R019C20)

Huawei EG8141A5, an intelligent routing-type ONT

Overview

The Huawei EG8141A5 is a routing-type ONT in the Huawei all-optical access solution. It uses the GPON technology to implement ultra-broadband access for users.

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 external antenna and pads)	32 mm x 145 mm x 97 mm	**Static power consumption**	4 W
Weight	About 180 g	**Maximum power consumption**	11 W
Operating temperature	0°C to 40°C	**NNI**	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	**UNI**	1GE + 3FE + 1POTS + 2.4G Wi-Fi
Power adapter input	100–240 V AC, 50/60 Hz	**Optical Connector**	SC/APC
System power supply	11–14 V DC, 1 A	**Indicators**	Power/PON/LOS/LAN/TEL/WLAN/WPS

Interface Parameters

GPON port	**Ethernet port**
• Class B+ • Receiver sensitivity: -27 dBm • Overload optical power: -8 dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) of G.984.5 • 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 • GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s • FE: Auto-adaptive 10 Mbit/s or 100 Mbit/s
WLAN	**POTS port**
• IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5 dBi • WMM • Multiple SSIDs • WPS • Air interface rate: 300 Mbps	• Maximum 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)

Product Function

Layer 3 features	**Smart O&M**	**Smart interconnection**	**QoS**
• PPPoE/Static IP/DHCP • NAT/NAPT	• IPTV video quality diagnosis • Rogue ONT detection	• Smart Wi-Fi coverage • SIP/H.248 auto-negotiation	• Ethernet port rate limitation • 802.1p priority

• Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port	and isolation from the OLT • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation	• Any port any service • Parental control • L2/L3(IPv4) forwarding: 1G uplink, 1.3G downlink	• SP/WRR/SP+WRR • Broadcast packet rate limitation **Common O&M** • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback
Smart service	**Security**	**Multicast**	**Power saving**
• Smart Wi-Fi sharing: Portal/802.1x authentication, SoftGRE-based sharing • Scheduled Wi-Fi shutdown	• SPI firewall • Filtering based on MAC/IP/URL addresses	• IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping	• Indicator power saving