

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
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5 dBi • WMM • Multiple SSIDs • WPS • Air interface rate: 300 Mbps 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT 	<ul style="list-style-type: none"> • IPTV video quality diagnosis • Rogue ONT detection 	<ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation 	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority

<ul style="list-style-type: none"> • 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 	<p>and isolation from the OLT</p> <ul style="list-style-type: none"> • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation 	<ul style="list-style-type: none"> • Any port any service • Parental control • L2/L3(IPv4) forwarding: 1G uplink, 1.3G downlink 	<ul style="list-style-type: none"> • SP/WRR/SP+WRR • Broadcast packet rate limitation
			Common O&M
			<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback
Smart service	Security	Multicast	Power saving
<ul style="list-style-type: none"> • Smart Wi-Fi sharing: Portal/802.1x authentication, SoftGRE-based sharing • Scheduled Wi-Fi shutdown 	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses 	<ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping 	<ul style="list-style-type: none"> • Indicator power saving

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