

# A Smarter Way for Your Broadband Life

Huawei EG8141A5, an intelligent routing-type ONT

Smart  
service

Smart  
interconnection

Smart O&M

Device Parameters		Product Function
Dimensions (H x W x D)	30 mm x 152 mm x 105 mm (without an external antenna and pads)	<h3>Smart interconnection</h3> <ul style="list-style-type: none"><li>Smart Wi-Fi coverage</li><li>SIP/H.248 auto-negotiation</li><li>Any port any service</li><li>Parental control</li><li>L2/L3(IPv4) forwarding: 1G uplink, 1.3G downlink</li></ul>
Weight	About 180 g	
Operating temperature	0°C to +40°C	
Operating humidity	5% RH to 95% RH (non-condensing)	
Power adapter input	100–240 V AC, 50/60 Hz	
System power supply	11–14 V DC, 1 A	
Static power consumption	3.1 W	
Max power consumption	7.15 W	
NNI	GPON	
UNI	1POTS + 1GE + 3FE + 2.4G Wi-Fi	
Optical Connector	SC/APC	
Indicators	POWER/PON/LOS/LAN/TEL/WLAN/WPS	
Installation mode	On the desk, or on the wall	
Compliance certification	CE/Wi-Fi	
Interface Parameters		
<b>GPON Port</b>	<ul style="list-style-type: none"><li>Class B+</li><li>Receiver sensitivity: -27 dBm</li><li>Overload optical power: -8 dBm</li><li>Wavelengths: US 1310 nm, DS 1490 nm</li><li>Wavelength blocking filter (WBF) of G.984.5</li><li>Flexible mapping between GEM Port and TCONT</li><li>GPON: consistent with the SN or password authentication defined in G.984.3</li><li>Bi-directional FEC</li><li>SR-DBA and NSR-DBA</li><li>Type B (single-homing &amp; dual-homing)</li></ul>	
<b>Ethernet Port</b>	<ul style="list-style-type: none"><li>Ethernet port-based VLAN tags and tag removal</li><li>1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li><li>QinQ VLAN</li><li>Limit on the number of learned MAC addresses</li><li>MAC address learning</li><li>GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li><li>FE: Auto-adaptive 10 Mbit/s, 100 Mbit/s</li></ul>	
<b>POTS Port</b>	<ul style="list-style-type: none"><li>Maximum REN: 4</li><li>G.711A/μ, G.729a/b and G.722 encoding/decoding</li><li>T.30/T.38/G.711 fax mode</li><li>DTMF</li><li>Emergency calls (with the SIP protocol)</li></ul>	
<b>WLAN</b>	<ul style="list-style-type: none"><li>IEEE 802.11 b/g/n</li><li>2 x 2 MIMO</li><li>Antenna gain: 5 dBi</li><li>WMM</li><li>Multiple SSIDs</li><li>WPS</li><li>Air interface rate: 300 Mbps</li></ul>	
<h3>Smart service</h3> <ul style="list-style-type: none"><li>Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing</li><li>Scheduled Wi-Fi shutdown</li></ul>		
<h3>Smart O&amp;M</h3> <ul style="list-style-type: none"><li>IPTV video quality diagnosis</li><li>Rogue ONT detection and isolation from the OLT</li><li>Call emulation, and circuit test and loop-line test</li><li>PPPoE/DHCP simulation testing</li><li>WLAN emulation</li><li>eSight management</li></ul>		
<h3>Layer 3 Features</h3> <ul style="list-style-type: none"><li>PPPoE/Static IP/DHCP</li><li>NAT/NAPT</li><li>Port forwarding</li><li>ALG, UPnP</li><li>DDNS/DNS server/DNS client</li><li>IPv6/IPv4 dual stack, and DS-Lite</li><li>Static/Default routes</li><li>Multiple services on one WAN port</li></ul>		
<h3>Multicast</h3> <ul style="list-style-type: none"><li>IGMP v2/v3 proxy/snooping</li><li>MLD v1/v2 snooping</li></ul>		
<b>QoS</b>	<h3>Security</h3> <ul style="list-style-type: none"><li>Ethernet port rate limitation</li><li>802.1p priority</li><li>SP/WRR/SP+WRR</li><li>Broadcast packet rate limitation</li></ul>	
<b>Common O&amp;M</b>	<h3>Power Saving</h3> <ul style="list-style-type: none"><li>OMCI/Web UI/TR069</li><li>Variable-length OMCI messages</li><li>Dual-system software backup and rollback</li></ul>	
		