

# A SMARTER WAY

FOR YOUR BROADBAND LIFE

Huawei Smart Home Gateway HS8245W





## Device Parameters

Dimensions (L x W x H) (without external antenna)	295 mm x 180 mm x 82 mm	System power supply	11–14 V DC, 3 A
Weight	< 1500 g	Static power consumption	8 W
Operating temperature	0°C to 40°C	Maximum power consumption	36 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE+2POTS+2USB+ 2.4G WiFi&5G WiFi
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/TEL/LAN/ WLAN/WPS/USB



## Interface Parameters

<b>GPON Port</b>	<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27 dBm</li> <li>• Wavelengths: US 1310 nm, DS 1490 nm</li> <li>• WBF</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> </ul>	<b>WLAN</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n (2.4G)</li> <li>• IEEE 802.11 a/n/ac (5G)</li> <li>• 3 x 3 MIMO (2.4G)</li> <li>• 4 x 4 MIMO (5G)</li> <li>• MU-MIMO</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM</li> <li>• Multiple SSIDs</li> <li>• WPS</li> <li>• DFS</li> <li>• Beamforming</li> <li>• Band Steering</li> <li>• Air Time Fairness</li> <li>• 160M/80+80M frequency channel</li> <li>• Air interface rate: 450 Mbit/s (2.4G); 1733 Mbit/s (5G)</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> </ul>		<b>USB Port</b>
<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>		





## Product Function

<p><b>Smart interconnection</b></p>	<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, 2G downlink</li> </ul>	<p><b>Smart service</b></p>	<ul style="list-style-type: none"> <li>• Smart Wi-Fi sharing: Portal/802.1x authentication</li> <li>• SoftGRE-based sharing</li> <li>• Association of one account with two POTS ports</li> </ul>
<p><b>Smart O&amp;M</b></p>	<ul style="list-style-type: none"> <li>• IPTV video quality diagnosis</li> <li>• Variable-length OMCI messages</li> <li>• Active/Passive rogue ONT detection and isolation</li> <li>• Call emulation, and circuit test and loop-line test</li> <li>• PPPoE/DHCP simulation testing</li> <li>• WLAN emulation</li> </ul>	<p><b>Layer 3 Features</b></p>	<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>
<p><b>Multicast</b></p>	<ul style="list-style-type: none"> <li>• IGMP v2/v3 proxy /snooping</li> <li>• MLD v1/v2 snooping</li> <li>• Multicast services through Wi-Fi</li> </ul>	<p><b>QoS</b></p>	<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>
<p><b>Security</b></p>	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Filtering based on MAC/IP/URL addresses</li> </ul>	<p><b>Common O&amp;M</b></p>	<ul style="list-style-type: none"> <li>• OMCI/Web UI/TR069</li> <li>• Dual-system software backup and rollback</li> </ul>
<p><b>Open platform</b></p>	<ul style="list-style-type: none"> <li>• Netopen</li> <li>• Third-party programmable plug-in based on OSGi</li> </ul>	<p><b>Power Saving</b></p>	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• Scheduled Wi-Fi shutdown</li> </ul>
<p><b>Home security*</b></p>	<ul style="list-style-type: none"> <li>• IP camera</li> <li>• Infrared proximity detector</li> <li>• Smoke detector</li> <li>• Flood detector</li> <li>• Audio and visual alarm</li> <li>• Gas detector</li> <li>• Magnetic sensor for door or window</li> </ul>	<p><b>Smart plug-in</b></p>	<ul style="list-style-type: none"> <li>• OTT video speedup (Youtube/Netflix)*</li> <li>• Online game speedup (Diablo III/ World of Warcraft*)</li> </ul>
<p><b>Home automation</b></p>	<ul style="list-style-type: none"> <li>• Smart plug</li> <li>• Temperature sensor &amp; humidity sensor</li> <li>• Wireless removable smart socket series</li> <li>• Infrared transmission</li> <li>• Power switch for light</li> </ul>	<p><b>Smart Wi-Fi coverage</b></p>	<ul style="list-style-type: none"> <li>• Configuration-free and PnP for Wi-Fi auxiliary devices (PLC/AP)</li> </ul>
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<p><b>Smart scenario</b></p>	<ul style="list-style-type: none"> <li>• Home, leave and sleep</li> <li>• Scenario association</li> <li>• Health mode</li> </ul>	<p><b>Private Cloud</b></p>	<ul style="list-style-type: none"> <li>• Local storage expansion through USB port</li> <li>• Automatic file synchronization and backup</li> </ul>
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The asterisk (\*) indicates that the item needs to be customized.



