

# A Smarter Way for Your Broadband Life

Huawei HG8240u, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



## ● Device Parameters

Dimensions (H x W x D)	176 mm x 138.5 mm x 28 mm (7 in. x 5.5 in. x 1.1 in.)	System power supply	11–20V DC, 1A
Weight	About 500 g (1 lb)	Static power consumption	3W
Operating temperature	0°C to +40°C (32°F to +104°F)	Maximum power consumption	7W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	2POTS+4GE
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/WAN/OPTICAL/LAN /TEL/BATTERY/ALARM

## ● Interface Parameters

GPON Port	Ethernet Port	POTS Port
<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27dBm</li> <li>• Wavelengths: US 1310nm, DS 1490nm</li> <li>• Wavelength blocking filter (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>	<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>• Local switching/isolation based on Ethernet ports</li> <li>• Transparent transmission of IPv6 packets at Layer 2</li> </ul>	<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

Smart Service	<ul style="list-style-type: none"> <li>• Association of one account with two POTS ports</li> <li>• L2 forwarding: 1G uplink, 2G downlink</li> </ul>	Smart O&M	<ul style="list-style-type: none"> <li>• Variable-length OMCI messages</li> <li>• Active/Passive rogue ONT detection and isolation</li> <li>• PPPoE/DHCP simulation testing</li> <li>• Call emulation, and circuit test and loop-line test</li> </ul>	
Smart interconnection	<ul style="list-style-type: none"> <li>• SIP/H.248 auto-negotiation</li> </ul>		Multicast	<ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• MLD v1/v2 snooping</li> <li>• Fast leave</li> <li>• VLAN tag translation, transparent transmission, and removal for downstream multicast packets</li> <li>• IGMP/MLD protocol packet rate limitation</li> </ul>
QoS	<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> <li>• Flow mapping based on the VLAN ID, port ID, or/and 802.1p</li> </ul>	Common O&M		<ul style="list-style-type: none"> <li>• OMCI/Web UI</li> <li>• Dual-system software backup and rollback</li> <li>• 802.1ag Ethernet OAM</li> <li>• Optical link measurement and diagnosis</li> <li>• Loopback check</li> </ul>
Security	<ul style="list-style-type: none"> <li>• MAC address filtering</li> </ul>			
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• Power consumption reduction of idle components in power-saving state</li> <li>• COCV4</li> </ul>			