

A Smarter Way for Your Broadband Life

Huawei HG8045A, an intelligent routing-type ONT

Smart service

Smart
interconnection



Smart O&M

○ Device Parameters

Dimensions (H x W x D)	176 mm x 138 mm x 28 mm (without an external antenna)	System power supply	11–14 V DC, 1 A
Weight	about 500 g	Static power consumption	5 W
Operating temperature	0° C to +40° C	Maximum power consumption	7 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4FE+Wi-Fi
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN/WLAN/WPS

○ Interface Parameters

GPON Port	Ethernet Port	WLAN
• Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310nm, DS 1490nm • Wavelength blocking filter (WBF) • 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	• IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5 dBi • WMM • Multiple SSIDs • WPS • Air interface rate: 300 Mbps

○ Product Function

Smart interconnection	• Smart Wi-Fi coverage (V300R015C10) • Any port any service • Parental control (V300R015C00)	QoS	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
Smart O&M	• IPTV video quality diagnosis (V300R015C10) • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • WLAN emulation	Layer 3 Features	• PPPoE/Static IP/DHCP • NAT/NAPT • 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
Smart service	• Smart Wi-Fi sharing: 802.1x authentication (V300R015C10)/Portal • SoftGRE-based sharing (V300R015C10)	Multicast	• IGMP v2/v3 snooping • IGMP v2 proxy • IGMP v3 proxy (V300R015C00) • MLD v1/v2 snooping • Multicast services through Wi-Fi
Security	• SPI firewall • Anti-DoS attack • Filtering based on MAC/IP/URL addresses	Common O&M	• OMCI/Web UI/TR069 • Dual-system software backup and rollback
		Power Saving	• Dynamic power saving • Indicator power saving • Scheduled Wi-Fi shutdown • COCv4