

# HS8145X6 Datasheet 01 (China Telecom)

Huawei intelligent Wi-Fi 6 routing-type ONT HS8145X6

## Overview



## Device Parameters

<b>Dimensions (H x W x D)</b>	35mm x 240mm x 115mm (without an external antenna)	<b>System power supply</b>	11 ~ 14V DC, 1.5 A
<b>Weight</b>	356 g	<b>Maximum power consumption</b>	18 W

<b>Operating temperature</b>	0°C ~ +40°C	<b>Network interface</b>	GPON/EPON
<b>Operating humidity</b>	5% RH ~ 95% RH, non-condensing	<b>User ports</b>	1POTS+4GE+2USB+2.4G&5G Wi-Fi 6
<b>Power adapter input</b>	170 ~ 240 V AC, 50/60 Hz	<b>Fiber interface</b>	SC/APC
<b>Indicators</b>	POWER/REGISTER/OPTICAL SIGNAL/1-4/TEL/USB-1 /USB-2/ WLAN/WPS	<b>Memory</b>	256M flash, 512M RAM

## Interface Parameters

<b>GPON/EPON Port</b>	<b>2.4G&amp;5G Wi-Fi</b>
<ul style="list-style-type: none"> <li>• GPON: Class B+/EPON: PX20+</li> <li>• Receiver sensitivity: -27dBm</li> <li>• Overload optical power GPON:-8dBm / EPON: -3dBm</li> <li>• Wavelengths: U S 1310nm, D S 1490nm</li> <li>• Support WBF</li> <li>• Authentication: SN/Password/LOID(GPON); MAC/Key/LOID(EPON)</li> <li>• Bi-directional FEC ( Forward Error Correction)</li> <li>• SR-DBA and NSR-DBA</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n/ax(2.4G)</li> <li>• IEEE 802.11 a/n/ac/ax(5G)</li> <li>• 2x2 MIMO (2.4G&amp;5G)</li> <li>• Antenna gain: 5dBi</li> <li>• WMM(Wi-Fi Multi Media)</li> <li>• Multiple SSIDs</li> <li>• WPS</li> <li>• Air interface rate: 574 Mbit/s(2.4G); 2402 Mbit/s(5G)</li> <li>• Beamforming</li> <li>• Band steering</li> <li>• DL OFDMA</li> <li>• DL MU-MIMO</li> <li>• 1024QAM</li> <li>• 160MHz</li> <li>• WPA3</li> </ul>
<b>Ethernet port</b>	
<ul style="list-style-type: none"> <li>• Limit on the number of learned MAC addresses</li> <li>• MAC address learning</li> <li>• Auto-adaptive 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s</li> </ul>	
<b>POTS port</b>	<b>USB port</b>
<ul style="list-style-type: none"> <li>• Maximum REN: 4</li> <li>• G.711A/u, G.729a/b, 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>	<ul style="list-style-type: none"> <li>• USB 2.0</li> </ul>

# Product Function

Layer 3 features	Smart service	Smart O&M	Smart interconnection
<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>	<ul style="list-style-type: none"> <li>• Scheduled Wi-Fi shutdown</li> <li>• Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing</li> </ul>	<ul style="list-style-type: none"> <li>• IPTV video quality diagnosis (VMOS&amp;eMDI)</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> </ul>	<ul style="list-style-type: none"> <li>• Smart Wi-Fi coverage</li> <li>• SIP/H.248 auto negotiation</li> <li>• Any port Any service Parental control</li> </ul>
Home network feature	Multicast	Security	Power saving
<ul style="list-style-type: none"> <li>• Visualized home network management</li> <li>• User-defined bandwidth allocation</li> <li>• Band steering</li> <li>• Wi-Fi optimization &amp; Wi-Fi roaming</li> <li>• Wi-Fi O&amp;M</li> <li>• intelligent identification and anti-interference</li> </ul>	<ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• IGMP v2/v3 proxy</li> <li>• MLD v1/v2 snooping</li> </ul>	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Prevent DOS a t t a c k</li> <li>• Filtering based on MAC/IP addresses</li> </ul>	<ul style="list-style-type: none"> <li>• Indicator power saving</li> </ul>
	QoS	O&M	
	<ul style="list-style-type: none"> <li>• Ethernet port rate limitation</li> <li>• 802.1p priority</li> <li>• SP/WRR/SP+WRRBroadcast packet rate limitation</li> </ul>	<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>	