

Overview

The Huawei OptiXstar B850 product is a gateway-type ONU device designed for enterprise private lines, enterprise campuses or video backhaul scenarios. The B850 can provide VXLAN and IPSec inbound cloud lines, and also provide users with wireless office, voice, HD video and other services. The B850 can work with the NMS to implement remote fault diagnosis, quick service provisioning, and automatic configuration. It can be placed on a desktop, mounted on a wall, or installed in a 19-inch cabinet and network box to meet the requirements of different scenarios.

Table 1 shows the Quick Specification.

Model	OptiXstar B850
Dimensions (H x W x D)	250 mm×180 mm×43.6 mm
Operating Temperature	-20°C to +55°C
Operating Humidity	5%RH to 95%RH (non-condensing)
Power Adapter Input	170 - 240 V AC, 50/60 Hz
System Power Supply	11 -14V DC, 2.5 A
Network-side Ports	<ul style="list-style-type: none"> • 1*XGS-PON /1* XG-PON <p>NOTE: Please check the nameplate for the uplink mode that the product actually supports.</p> <ul style="list-style-type: none"> • GE port (the first GE port on the user side can be used as a WAN port)
User-side Ports	8*GE + 8*POTS + 1*USB + 2.4G&5G Wi-Fi 6
Maximum power consumption	28W
Surge protection specifications	GE: common mode 6 kV; differential mode 0.5 kV.

Figure 1 shows the appearance of OptiXstar B850.





Product Details

Port Parameters

OPTICAL	<ul style="list-style-type: none"> ● 1*XGS-PON /1* XG-PON ● Port type: SC/UPC ● XGS-PON: <ul style="list-style-type: none"> – Class N1/N2; – Receiver sensitivity: -28dBm; – Overload optical power: -9dBm; ● XG-PON: <ul style="list-style-type: none"> – Class N1/N2a; – Receiver sensitivity: -28dBm; – Overload optical power: -8dBm; ● Transmission rate: <ul style="list-style-type: none"> – XGS-PON: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s – XG-PON: upstream 2.488Gbit/s, downstream 9.953Gbit/s ● Type B protection
LAN Ports	<ul style="list-style-type: none"> ● RJ-45 connector ● Auto ports speed (10/100/1000 Mbit/s) ● Complying with IEEE802.3
TEL Ports	<ul style="list-style-type: none"> ● SIP/H.248 ● G.711A/u, G.722, G.729a/b ● T.38 and transparent transmission mode ● Dual-homing
Wi-Fi Parameter	<ul style="list-style-type: none"> ● IEEE 802.11 b/g/n/ax (2.4G) ● IEEE 802.11 a/n/ac/ax (5G) ● 2x2 MIMO (2.4G/5G) ● Antenna gain: 5dBi (2.4G/5G) ● Multiple SSIDs ● WPS ● Air interface rate: 574 Mbit/s (2.4G); 2402 Mbit/s (5G)
USB Port	<ul style="list-style-type: none"> ● USB3.0

Function List

Smart O&M	<ul style="list-style-type: none"> ● OMCI/OAM/Web UI/TR069 ● Call emulation, and circuit test and loop-line test ● PPPoE/DHCP simulation testing ● ETH OAM* <p>*The ETH OAM feature is supported in LAN 1-LAN 4, and LAN5-LAN8 are not supported.</p>
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Layer 2 Management	<ul style="list-style-type: none"> • DHCP Option82 • PTP • BPDU transparent transmission
Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/StaticIP/DHCP • IPv6 • DDNS/DNS • Static routes • NAT/Static one-to-one address translation • DMZ/Port Mapping/Port Tigger • ALG/UPnP/ARP
Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • IGMP proxy • MLDv1/MLDv2 snooping
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
VPN	<ul style="list-style-type: none"> • IPSec VPN • L2TP VPN
Security	<ul style="list-style-type: none"> • SPI firewall • DoS anti-attacks • MAC/IP/URL addresses • Static MAC address binding
VXLAN	<ul style="list-style-type: none"> • IPv4 package • 10 VNIs

Get More Information

Do you have any question about the OptiXstar B850?

Contact us now via info@hi-network.com.

Specification

OptiXstar B850 Specification	
Dimensions (WxDxH)	250 mm×180 mm×43.6 mm
Weight	About 1.8 kg
Operating temperature	-20°C to +55°C
Operating humidity	5%RH to 95%RH (non-condensing)
Atmospheric pressure (Altitude)	70kPa to 106kPa(≤5000m)





Power adapter input	170 - 240 V AC, 50/60 Hz
System power supply	11 -14V DC, 2.5 A
NNI	<ul style="list-style-type: none"> • 1*XGS-PON /1* XG-PON <p>NOTE: Please check the nameplate for the uplink mode that the product actually supports.</p> <ul style="list-style-type: none"> • GE port (the first GE port on the user side can be used as a WAN port)
UNI	8*GE + 8*POTS + 1*USB + 2.4G&5G Wi-Fi 6
Typical power consumption	14W
Static power consumption	8W
Maximum power consumption	28W
Maximum frame length	9216 bytes
Surge protection specifications	GE: common mode 6 kV; differential mode 0.5 kV.
Protection rating	IP20
Installation mode	Support desktop installation, wall mounting, 19-inch cabinet or network box installation.
OPTICAL	<ul style="list-style-type: none"> • 1*XGS-PON /1* XG-PON • Port type: SC/UPC • XGS-PON: <ul style="list-style-type: none"> – Class N1/N2; – Receiver sensitivity: -28dBm; – Overload optical power: -9dBm; • XG-PON: <ul style="list-style-type: none"> – Class N1/N2a; – Receiver sensitivity: -28dBm; – Overload optical power: -8dBm; • Transmission rate: <ul style="list-style-type: none"> – XGS-PON: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s – XG-PON: upstream 2.488Gbit/s, downstream 9.953Gbit/s • Type B protection
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USB Port	<ul style="list-style-type: none"> • USB3.0





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