

OptiXstar B650 V100R020C00

Datasheet 01

BusinessPON Enterprise-Level Routing Gateway ONU

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Product Overview

The Huawei OptiXstar B650 product is gateway-type ONU device designed for enterprise private lines, enterprise campuses or video backhaul scenarios. The B650 can provide VXLAN and IPSec inbound cloud lines, and also provide users with wireless office, voice, HD video and other services. The B650 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.



NOTE

The actual product appearance prevails.

Product Highlights

- Abundant interfaces: GE/POTS/Wi-Fi/USB, supporting 8+8 configurations
- Rich services: IPSec VPN, VxLAN tunnel, flexible cloudification

Technical Specifications

Dimensions	250 mm×180 mm×43.6 mm	UNI	8*GE + 8*POTS + 1*USB + 2.4G&5G Wi-Fi 6
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(WxDxH)			
Weight	About 1.8 kg	Typical power consumption	11W
Operating temperature	-20°C to +55°C	Static power consumption	6W
Operating humidity	5%RH to 95%RH (non-condensing)	Maximum power consumption	24W
Atmospheric pressure(Altitude)	70kPa to 106kPa(≤5000m)	Maximum frame length	9216 bytes
Power adapter input	170 - 240 V AC, 50/60 Hz	Surge protection specifications	GE: common mode 6 kV; differential mode 0.5 kV.
System power supply	11 - 14V DC, 2.5 A	Protection rating	IP20
NNI	<ul style="list-style-type: none"> • GPON • GE port (the first GE port on the user side can be used as a WAN port) 	Installation mode	Support desktop installation, wall mounting, 19 inch cabinet or network box installation.

Port Parameters

OPTICAL	<ul style="list-style-type: none"> • Port type: SC/UPC • GPON: <ul style="list-style-type: none"> - Class B+; - Receiver sensitivity: -27dBm; - Overload optical power: -8dBm; - Transmission rate: upstream 1.244 Gbit/s, downstream 2.488 Gbit/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

<p>Smart O&M</p> <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>	<p>Layer 3 Features</p> <ul style="list-style-type: none"> • PPPoE/StaticIP/DHCP • IPv6 • DDNS/DNS • Static routes • NATP/Static one-to-one address translation • DMZ/Port Mapping/Port Tigger • ALG/UPnP/ARP 	<p>QoS</p> <ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 	<p>Security</p> <ul style="list-style-type: none"> • SPI firewall • DoS anti-attacks • MAC/IP/URL addresses • Static MAC address binding
<p>Layer 2 Management</p> <ul style="list-style-type: none"> • DHCP Option82 • PITP • BPDU transparent transmission 	<p>Multicast</p> <ul style="list-style-type: none"> • IGMP v2/v3 snooping • IGMP proxy • MLDv1/MLDv2 snooping 	<p>VPN</p> <ul style="list-style-type: none"> • IPSec VPN • L2TP VPN 	<p>VXLAN</p> <ul style="list-style-type: none"> • IPv4 package • 10 VNIs

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