

Overview

The OptiXstar T863E-DE is an industrial intrinsically safe type ORE in Huawei's industrial optical network solution. The network side provides two XGS-PON upstream ports, and the user side provides eight GE Ethernet ports. With high-performance forwarding capabilities, the device provides ideal industrial production network solutions for various industrial scenarios, such as oil, gas, mining, and manufacturing.

Product Highlights

- Industrial-grade design, high reliability, and high protection level
 - Dual XGS-PON upstream transmission
 - Type B/Type C service protection
 - Surge protection capability of 6 kV in common mode for the Ethernet port
 - Dual DC power inputs
- Easy deployment and O&M
 - Intrinsically safe box installation with mounting ears
 - Centralized management on eSight

Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar T863E-DE
Dimensions (H x W x D)	43.6mm x 210mm x 250mm
Weight	About 2.3 kg
Operating Temperature	-40°C to +70°C
Operating Humidity	5% RH to 95% RH (non-condensing)
System Power Supply	DC 9V to 36V, dual power inputs
Static Power Consumption	10 W
Typical Power Consumption	11 W
Maximum Power Consumption	14 W
NNI	2*XGS-PON SFP
UNI	4*GE(Electrical) + 4*GE(Optical) + 2*RS485 + 1*LED

Figure 1 shows the appearance of OptiXstar T863E-DE.



Product Details

Port Parameters

XGS-PON Port	<ul style="list-style-type: none"> • Port type: SC/UPC • XGS-PON – SFP, complying with ITU-T G.9807.1, Class N1/N2 – Transmission rate: RX: 9.953 Gbit/s, TX: 9.953 Gbit/s – Optical receiver sensitivity: -28 dBm – Overload optical power: -8 dBm
GE Optical Port	<ul style="list-style-type: none"> • Auto-MDI/MDIX • Configuration of the number of MAC addresses learned • Supported optical module type: Low-speed optical module eSFP (GE, single-mode module, 1310 nm, 10 km, LC) Single-fiber bidirectional SFP module (GE, single-mode module, 1310 nm (TX)/1490 nm (RX), 10 km, LC) Single-fiber bidirectional SFP module (GE, single-mode module, 1490 nm (TX)/1310 nm (RX), 10 km, LC)
RS485 Port	<ul style="list-style-type: none"> • Port type: 2-pin Phoenix terminal • Complying with TIA/EIA-485, ITU-T V.24, ITU-T V.28
LED Port	<ul style="list-style-type: none"> • Connecting to external light panel
GE Electrical Port	<ul style="list-style-type: none"> • Port type: RJ-45 • Complying with IEEE 802.3a • Auto ports speed (10/100/1000 Mbit/s)
PWR Port - DC	<ul style="list-style-type: none"> • Port type: 2-pin Phoenix terminal

Function List

Automatic Service Provisioning	<ul style="list-style-type: none"> • Authentication exemption • XML/OMCI
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Layer 3 Features	<ul style="list-style-type: none"> • Default/Static/Policy/Service Route • VLAN binding • ALG/UPnP/ARP • DDNS/DMZ/DNS/NAPT • PPPoE/Static IP/DHCP • Port mapping/Port trigger • IPv6
Security	<ul style="list-style-type: none"> • Filtering based on MAC/IP/URL • DoS/ARP anti-attacks • Web session number restriction • Device access control • 802.1x authentication modes: EAP-MD5, TLS, TTLS, and PEAP • Static MAC address binding • IPv6/IPv4 firewall
Network Protection	<ul style="list-style-type: none"> • Type B Protection • Type C Protection • Ring network detection • Load sharing
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR
Layer 2 Management	<ul style="list-style-type: none"> • DHCP Option82 • PITP • BPDU transparent transmission • LLDP/LLDP-MED
Smart O&M	<ul style="list-style-type: none"> • XML/Web UI • Centralized management on eSight • Rogue ONT detection and self-regulation • PPPoE/DHCP simulation testing • Serial port data collection and transmission • Transparent transmission of serial port data • High temperature alarm and shutdown
Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • Dynamic controllable multicast • IGMP Proxy • MLDv1/MLDv2 snooping
Electricity Industry Standards	<ul style="list-style-type: none"> • DL 645 • DL 698.41 • IEC 60870-5-101 • IEC 60870-5-102
Industrial Ethernet Protocol	<ul style="list-style-type: none"> • Ethernet/IP • PROFINET • MODBUS-RTPS • EPA





Get More Information

Do you have any question about the OptiXstar T863E-DE?

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

Specification

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Weight	About 2.3 kg
Operating Temperature	-40°C to +70°C
Operating Humidity	5% RH to 95% RH (non-condensing)
System Power Supply	DC 9V to 36V, dual power inputs
Surge Protection Specifications	Ethernet port: common mode 2 kV; differential mode 0.5 kV
Rated Voltage and Current	DC 9V to 36V, 2A
Static Power Consumption	10 W
Typical Power Consumption	11 W
Maximum Power Consumption	14 W
EMC	Class A
NNI	2*XGS-PON SFP
UNI	4*GE(Electrical) + 4*GE(Optical) + 2*RS485 + 1*LED
Heat Dissipation Mode	No fans, natural heat dissipation
Protection Level	Intrinsically safe type, IP20
XGS-PON Port	<ul style="list-style-type: none"> ● Port type: SC/UPC ● XGS-PON – SFP, complying with ITU-T G.9807.1, Class N1/N2 – Transmission rate: RX: 9.953 Gbit/s, TX: 9.953 Gbit/s – Optical receiver sensitivity: -28 dBm – Overload optical power: -8 dBm
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RS485 Port	<ul style="list-style-type: none"> ● Port type: 2-pin Phoenix terminal





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LED Port	<ul style="list-style-type: none">• Connecting to external light panel
GE Electrical Port	<ul style="list-style-type: none">• Port type: RJ-45• Complying with IEEE 802.3a• Auto ports speed (10/100/1000 Mbit/s)

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