

## Overview

Designed for diverse industrial scenarios — from electric power to manufacturing and to transportation — Huawei OptiXstar MA5621E is an Optical Network Unit (ONU) that supports dual Gigabit-capable Passive Optical Network (GPON) upstream transmission, offering an industrial-grade design, high reliability, and a high protection level. With centralized management possible through Huawei's eSight platform, Huawei OptiXstar MA5621E can be installed on any indoor desktop computer table, in a 19-inch cabinet, or inside a network box. The ONU offers diverse capabilities such as Type B/Type C hand-in-hand service protection and 6 kV surge protection in common mode for the Ethernet port.

## Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar MA5621E
Dimensions (H x W x D)	43.6 x 250 x 180 mm (without mounting ears) 43.6 x 482.6 x 180 mm (without mounting ears)
Weight (Without Power Adapter)	Approximately 2.5 kg
Operating Temperature	-40° C to +70° C
Operating Humidity	5-95% RH (non-condensing)
Power Rating (DC Configuration)	12~48 V; 2 A
Power Rating (AC Configuration)	100~240 V AC; 50/60 Hz; 0.5 A
Surge Protection	Ethernet port: common mode 6 kV; differential mode 1.5 kV DC power port: common mode 4 kV; differential mode 2 kV
Maximum Power Consumption	Approximately 12 W
NNI	1 x GPON SFP + 1 x GPON BOB
UNI	8 x GE + 4 x RS485/RS232 + 1 x Alarm

Figure 1 shows the appearance of OptiXstar MA5621E (DC Configuration).



Figure 2 shows the appearance of OptiXstar MA5621E (AC Configuration).



## Product Details

### Interface Parameters

PON Port	<p>NNI - GPON Port (1 x SFP + 1 x BOB)</p> <p>Port type: SC/UPC</p> <p>Standard compliance: ITU-T G.984, Class B+</p> <p>Maximum transmission distance: 20 km</p> <p>Transmission rate: RX: 2.488 Gbit/s; TX: 1.244 Gbit/s</p> <p>Optical receiver sensitivity: -27 dBm</p> <p>Overload optical power: -8 dBm</p>
Ethernet Electrical Port	<p>Port type: RJ-45</p> <p>Auto port speeds (10/100/1000 Mbit/s)</p>
RS485 Port	<p>Port type: RJ-45</p> <p>Complies with TIA/EIA-485, ITU-T V.24, ITU-T V.28</p>
RS232 Port	<p>Port type: RJ-45</p> <p>Complies with TIA/EIA-232, ITU-T V.24, ITU-T V.28</p>
UNI — Alarm	<p>Connected to the external alarm device or other devices</p> <p>Port type: RJ-45</p>

### Product Function

Automatic Service Provisioning	<ul style="list-style-type: none"> <li>• Authentication exemption</li> <li>• XML/OMCI/OAM</li> </ul>
Network Protection	<ul style="list-style-type: none"> <li>• Type B Protection</li> <li>• Type C Protection</li> <li>• Ring network detection</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Ethernet port rate limitation</li> <li>• 802.1p priority</li> <li>• SP/WRR/SP+WRR</li> </ul>



Layer 2 Management	<ul style="list-style-type: none"> <li>• DHCP Option82</li> <li>• PTP</li> <li>• BPDU transparent transmission</li> <li>• LLDP/LLDP-MED</li> </ul>
Layer 3 Features	<ul style="list-style-type: none"> <li>• Default/Static/Policy/Service Route</li> <li>• VLAN binding</li> <li>• ALG/UPnP/ARP</li> <li>• DDNS/DMZ/DNS/NAPT</li> <li>• PPPoE/Static IP/DHCP</li> <li>• Port mapping/Port trigger</li> <li>• IPv6</li> </ul>
Smart O&M	<ul style="list-style-type: none"> <li>• XML/Web UI</li> <li>• Centralized management on eSight</li> <li>• Rogue ONT detection and self-regulation</li> <li>• PPPoE/DHCP simulation testing</li> <li>• Serial port data collection and transmission</li> <li>• Transparent transmission of serial port data</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Filtering based on MAC/IP/URL</li> <li>• DoS/ARP anti-attacks</li> <li>• Web session number restriction</li> <li>• Device access control</li> <li>• 802.1x authentication modes: EAP-MD5, TLS, TTLS, and PEAP</li> <li>• Static MAC address binding</li> <li>• IPv6/IPv4 firewall</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• Dynamic controllable multicast</li> </ul>
Electricity Industry Standards	<ul style="list-style-type: none"> <li>• DL 645</li> <li>• DL 698.41</li> <li>• IEC 60870-5-101</li> <li>• IEC 60870-5-102</li> </ul>

## Get More Information

Do you have any question about the OptiXstar MA5621E?

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).

## Specification

OptiXstar MA5621E Specification	
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Surge Protection	Ethernet port: common mode 6 kV; differential mode 1.5 kV DC power port: common mode 4 kV; differential mode 2 kV
Maximum Power Consumption	Approximately 12 W
NNI	1 x GPON SFP + 1 x GPON BOB
UNI	8 x GE + 4 x RS485/RS232 + 1 x Alarm
Installation Mode	Placed on an indoor desktop or installed in a 19-inch cabinet or network box
Protection Level	IP40
Authentication	802.1X
PON Port	NNI - GPON Port (1 x SFP + 1 x BOB) Port type: SC/UPC Standard compliance: ITU-T G.984, Class B+ Maximum transmission distance: 20 km Transmission rate: RX: 2.488 Gbit/s; TX: 1.244 Gbit/s Optical receiver sensitivity: -27 dBm Overload optical power: -8 dBm
Ethernet Electrical Port	Port type: RJ-45 Auto port speeds (10/100/1000 Mbit/s)
RS485 Port	Port type: RJ-45 Complies with TIA/EIA-485, ITU-T V.24, ITU-T V.28
RS232 Port	Port type: RJ-45 Complies with TIA/EIA-232, ITU-T V.24, ITU-T V.28
UNI — Alarm	Connected to the external alarm device or other devices Port type: RJ-45

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