

## Overview

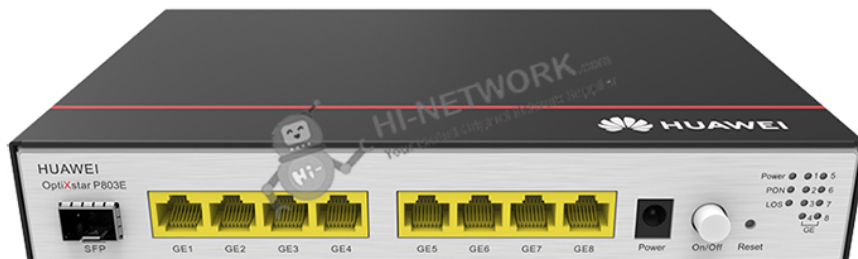
The Huawei OptiXstar P803E is an Optical Network Unit (ONU) with 8 Gigabit Ethernet (GE) ports for high-quality transmission of voice, data, and High Definition (HD) video services. With 10 Gbit/s symmetric uplink and downlink bandwidth that supports multiple 4K cameras, OptiXstar P803E excels in enterprise campus and video backhaul scenarios.

## Quick Specification

Table 1 shows the Quick Specification.

|                                |  |
|--------------------------------|--|
| Model                          | OptiXstar P803E  |
| Dimensions (H x W x D)         | 220 x 150 x 35 mm (without base)   |
| Weight (Without Power Adapter) | Approximately 1030 g   |
| Operating Temperature          | -40~55°C   |
| Operating Humidity             | 5~95% RH (noncondensing)   |
| Power Adapter Input            | 100~240 V AC, 50/60 Hz   |
| NNI                            | 1 x XGS-PON  |
| UNI                            | 8 x GE   |
| Maximum Power Consumption      | 6.96 W   |
| Surge Protection               | GE: common mode 4 kV; differential mode 0.5 kV.<br>AC power: common mode 6 kV; differential mode 6 kV. |

Figure 1 shows the appearance of OptiXstar P803E.



## Product Highlights

- 802.1x and IPv6/IPv4 firewalls ensure device access security and network security.



- Support XGS-PON uplink access.
- Supports -40° C to +55° C wide temperature range with strong environment adaptability.
- Supports secure boot.
- Features high reliability, and type B dual-homing service protection.

## Product Details

### Port Parameters

|                          |   |
|--------------------------|---|
| PON Port                 | <ul style="list-style-type: none"> <li>• XGS-PON optical module, port type: SC/UPC</li> <li>• XGS-PON                             <ul style="list-style-type: none"> <li>– Class N1/N2</li> <li>– Receiver sensitivity: -28 dBm</li> <li>– Overload optical power: -9 dBm</li> <li>– Transmission rate: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s</li> </ul> </li> <li>• Type B single-homing</li> <li>• Type B dual-homing (supported in Layer 2 forwarding)</li> </ul> |
| Ethernet Electrical Port | <ul style="list-style-type: none"> <li>• Port type: RJ-45</li> <li>• Auto port speeds (10/100/1000 Mbit/s)</li> <li>• Auto-MDI/MDIX</li> <li>• Configuration of the number of MAC addresses learned</li> <li>• VLAN transparent transmission/VLAN filtering</li> </ul>  |

### Product Function

|                                |   |
|--------------------------------|---|
| Automatic Service Provisioning | <ul style="list-style-type: none"> <li>• Authentication exemption</li> <li>• XML/OMCI/TR069</li> </ul>  |
| Multicast                      | <ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• Dynamic controllable multicast</li> <li>• IGMP proxy</li> <li>• MLDv1/MLDv2 snooping</li> </ul>           |
| Smart O&M                      | <ul style="list-style-type: none"> <li>• XML/Web UI</li> <li>• Rogue ONT detection and self-regulation</li> <li>• Ring network detection/PPPoE/DHCP simulation testing</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 3 Features               | <ul style="list-style-type: none"> <li>• Default/Static/Policy/Service routes</li> <li>• VLAN binding</li> <li>• ALG/UPnP/ARP</li> <li>• DDNS/DMZ/DNS/NAPT</li> </ul>             |





|                    |   |
|--------------------|---|
|                    | <ul style="list-style-type: none"> <li>• PPPoE/Static IP/DHCP</li> <li>• Port mapping/Port trigger</li> <li>• IPv6</li> </ul>   |
| Layer 2 Management | <ul style="list-style-type: none"> <li>• DHCP Option82</li> <li>• PITP</li> <li>• BPDU transparent transmission</li> <li>• LLDP/LLDP-MED</li> </ul>   |
| Security           | <ul style="list-style-type: none"> <li>• 802.1x</li> <li>• IPv6/IPv4 firewalls</li> <li>• Filtering based on MAC/IP/URL</li> <li>• DoS/ARP anti-attacks</li> <li>• Static MAC address binding</li> <li>• Device access control</li> <li>• Web session number restriction</li> </ul> |

## Compare to Similar Items

Table 2 shows the comparison.

| Model | <a href="#">OptiXstar P802E</a> | OptiXstar P803E | <a href="#">OptiXstar P812E</a>                                    | <a href="#">OptiXstar P813E</a> |
|-------|---------------------------------|-----------------|--|---------------------------------|
| NNI   | XGS-PON                         | XGS-PON         | XGS-PON  | XGS-PON                         |
| UNI   | 4*GE                            | 8*GE            | 4*GE+1*2.5GE<br>NOTE: Both the GE and 2.5GE ports support PoE/PoE+ | 8*GE (PoE/PoE+)                 |

## Get More Information

Do you have any question about the OptiXstar P803E?

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

## Specification

| OptiXstar P803E Specification  |                                  |
|--------------------------------|----------------------------------|
| Dimensions (H x W x D)         | 220 x 150 x 35 mm (without base) |
| Weight (Without Power Adapter) | Approximately 1030 g             |
| Operating Temperature          | -40~55°C                         |
| Operating Humidity             | 5~95% RH (noncondensing)         |
| Power Adapter Input            | 100~240 V AC, 50/60 Hz           |





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|                           |   |
|---------------------------|---|
| NNI                       | 1 x XGS-PON   |
| UNI                       | 8 x GE  |
| Maximum Power Consumption | 6.96 W  |
| Surge Protection          | GE: common mode 4 kV; differential mode 0.5 kV.<br>AC power: common mode 6 kV; differential mode 6 kV.  |
| PON Port                  | <ul style="list-style-type: none"> <li>• XGS-PON optical module, port type: SC/UPC</li> <li>• XGS-PON                             <ul style="list-style-type: none"> <li>– Class N1/N2</li> <li>– Receiver sensitivity: –28 dBm</li> <li>– Overload optical power: –9 dBm</li> <li>– Transmission rate: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s</li> </ul> </li> <li>• Type B single-homing</li> <li>• Type B dual-homing (supported in Layer 2 forwarding)</li> </ul> |
| Ethernet Electrical Port  | <ul style="list-style-type: none"> <li>• Port type: RJ-45</li> <li>• Auto port speeds (10/100/1000 Mbit/s)</li> <li>• Auto-MDI/MDIX</li> <li>• Configuration of the number of MAC addresses learned</li> <li>• VLAN transparent transmission/VLAN filtering</li> </ul>  |
| Installation Mode         | Support indoor desktop, wall mounting, or network box installation.   |

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