

## Overview

The Huawei OptiXstar F600D-30-4G1V is an intelligent GPON and Wi-Fi 6 ONU. It uses the GPON Wi-Fi 6 technology to implement ultra-broadband access, high performance and wide coverage for users. The high forwarding performance ensures the user experience of voice, data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

It provides 4 GE ports, 1 POTS port, 1 USB port and 1 2.4G&5G Wi-Fi port.

- Next generation Wi-Fi 6 technology
- Smart service
- Smart interconnection
- Smart O&M

## Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar F600D
Dimensions (H x W x D)	195mm x 125mm x 35mm (without external antenna and pads)
Weight	About 372 g
Operating Temperature	0°C to 40°C
Operating Humidity	5%–95% RH, non-condensing
Rated Input Range of Power Adapter	100–240 V AC, 50/60 Hz
System Power Supply	12V DC, 1.5A
Static Power Consumption	6 W
Maximum Power Consumption	18 W
Memory	128M Flash, 256M RAM
Network-side Port	GPON
User-side Port	4*GE+1*POTS+2.4G/5G Wi-Fi 6+1USB
Fiber Port Type	SC/UPC
Indicator	ower/PON/LOS/LAN/TEL/USB/WLAN/WPS

Figure 1 shows the appearance of OptiXstar F600D.



## Product Details

### Interface Parameters

GPON Port	<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27dBm ~ -29dBm</li> <li>• Overload optical power: -8 dBm</li> <li>• Wavelengths: US 1310 nm, DS 1490 nm</li> <li>• Wavelength blocking filter (WBF)</li> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• Authentication mode: SN, Password, LOID</li> <li>• Bi-directional FEC</li> <li>• SR-DBA and NSR-DBA</li> </ul>
Ethernet Port	<ul style="list-style-type: none"> <li>• Ethernet port-based VLAN tags and tag removal</li> <li>• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li> <li>• QinQ VLAN</li> <li>• Limit on the number of learned MAC addresses</li> <li>• MAC address learning</li> <li>• Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li> </ul>
POTS Port	<ul style="list-style-type: none"> <li>• Maximum REN: 4</li> <li>• G.711A/μ, G.729a/b and G.722 encoding/decoding</li> <li>• T.30/T.38/G.711 fax mode</li> <li>• DTMF</li> <li>• Emergency calls (with the SIP protocol)</li> </ul>
USB Port	<ul style="list-style-type: none"> <li>• USB2.0</li> <li>• FTP-based network storage</li> <li>• File/Print sharing based on SAMBA</li> <li>• DLNA function</li> </ul>



WLAN	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n/ax (2.4G)</li> <li>• IEEE 802.11 a/n/ac/ax (5G)</li> <li>• 2 × 2 MIMO (2.4G)</li> <li>• 2 × 2 MIMO (5G)</li> <li>• Antenna gain: 5 dBi</li> <li>• WMM/Multiple SSIDs/WPS</li> <li>• 2.4G&amp;5G concurrent</li> <li>• Air interface rate: 574 Mbit/s (2.4G), 2402 Mbit/s (5G)</li> <li>• Beamforming</li> <li>• Band steering</li> <li>• DL OFDMA</li> <li>• DL MU-MIMO</li> <li>• 1024QAM</li> <li>• 160MHz frequency bandwidth</li> <li>• WPA3</li> </ul>
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## Product Functions

### Gateway OLT Networking Scenario

Enterprise Network	<ul style="list-style-type: none"> <li>• Works with the master gateway F1001-AC to implement all-optical Wi-Fi coverage for enterprises.</li> <li>– Immune to EMI and low latency</li> <li>– Automatic networking and plug-and-play</li> <li>– Automatic Wi-Fi configuration synchronization</li> <li>– Automatic Wi-Fi channel selection under the master gateway</li> <li>– Wi-Fi proactive roaming (802.11k/802.11v) under the master gateway*, with handover latency of 100 ms</li> </ul>
Smart Connectivity	<ul style="list-style-type: none"> <li>• Upstream mode: fiber upstream transmission</li> <li>• Working mode: bridging</li> </ul>
O&M	<ul style="list-style-type: none"> <li>• Web UI</li> <li>• Software dual-backup and rollback</li> </ul>

### OLT Networking Scenario

Automatic Service Provisioning	<ul style="list-style-type: none"> <li>• Authentication exemption</li> <li>• XML/OMCI/TR069</li> </ul>
Intelligent 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</li> <li>• PPPoE/DHCP emulation</li> </ul>
L3 Feature	<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 address/DHCP</li> </ul>





	<ul style="list-style-type: none"> <li>• Port mapping/Port trigger</li> <li>• IPv6</li> </ul>
Security	<ul style="list-style-type: none"> <li>• 802.1x</li> <li>• IPv6/IPv4 firewall</li> <li>• MAC address filtering/IP address filtering</li> <li>• Anti-DoS/anti-ARP attack</li> <li>• Static MAC addresses binding</li> <li>• Device access control</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>
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>
L2 management	<ul style="list-style-type: none"> <li>• DHCP Option82</li> <li>• PTP</li> <li>• BPDU transparent transmission</li> <li>• LLDP</li> </ul>
Networking protection	<ul style="list-style-type: none"> <li>• Type B single-homing protection</li> <li>• Type B dual-homing protection</li> </ul>

## Get More Information

Do you have any question about the OptiXstar F600D?

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

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