

# FG736 Datasheet 01

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## Product Overview

The Huawei eKitOptiX FG736 is a dual-band edge ONT that supports ultra-gigabit access over both Wi-Fi 7 and Ethernet ultra-gigabit network ports.

- Next-generation Wi-Fi 7 MU-MIMO technology
- Strong anti-interference capability, wide coverage, and network self-healing
- One-click pairing and automatic networking
- Ethernet port auto-sensing for LAN or WAN mode
- Mesh network (tree type)



### NOTE

The appearances shown in this document may differ from the actual appearances of the products. The actual products prevail.

# Hardware Specifications

Specification	Parameters
<b>Dimensions (H x W x D)</b>	140mm × 188mm × 35mm (excluding the base)
<b>NNI</b>	2.5GE, GE or Wi-Fi (NNI/UNI multiplexing)
<b>UNI</b>	<ul style="list-style-type: none"> <li>2.5GE uplink: 1 x 2.5GE + 2 x GE + 2.4GHz &amp; 5GHz Wi-Fi 7</li> <li>GE uplink: 2 x 2.5GE + 1 x GE + 2.4GHz &amp; 5GHz Wi-Fi 7</li> <li>Wi-Fi uplink: 2 x 2.5GE + 2 x GE + 2.4GHz &amp; 5GHz Wi-Fi 7</li> </ul>
<b>Rated power supply</b>	Powered through a power adapter. For details, see the product nameplate.
<b>Static power consumption</b>	5.5 W
<b>Maximum power consumption</b>	12 W
<b>Antenna type</b>	Built-in antenna
<b>Operating temperature</b>	0°C to 40°C
<b>Operating humidity</b>	5%–95% RH, non-condensing
<b>Weight (excluding adapter)</b>	About 325 g
<b>Protection rating</b>	IP20
<b>Surge protection</b>	<ul style="list-style-type: none"> <li>AC power supply (Power Adapter): 6 kV in common mode and 4 kV in differential mode</li> <li>GE: 2.5 kV in common mode</li> </ul>
<b>Heat dissipation</b>	Natural cooling
<b>Installation mode</b>	Vertically placed on a desk

## Port Parameters

Name	Parameter
<b>2.5GE port</b>	<ul style="list-style-type: none"> <li>RJ-45 port</li> <li>10/100/1000/2500 Mbit/s auto-sensing</li> <li>Limit on the number of learned MAC addresses</li> <li>MAC address learning</li> </ul>
<b>GE port</b>	<ul style="list-style-type: none"> <li>RJ-45 port</li> <li>10/100/1000 Mbit/s auto-sensing</li> <li>Limit on the number of learned MAC addresses</li> <li>MAC address learning</li> </ul>
<b>2.4GHz/5GHz Wi-Fi 7</b>	<ul style="list-style-type: none"> <li>IEEE 802.11 b/g/n/ax/be (2.4 GHz)</li> <li>IEEE 802.11 a/n/ac/ax/be (5 GHz)</li> <li>2 x 2 MIMO (2.4 GHz &amp; 5 GHz)</li> <li>Air interface rate:</li> </ul>

Name	Parameter
	<ul style="list-style-type: none"> <li>- 688 Mbit/s (2.4 GHz)</li> <li>- 2882 Mbit/s (5 GHz)</li> <li>• Maximum number of access users: 64</li> <li>• WMM (Wi-Fi Multimedia)</li> <li>• Beamforming</li> <li>• Band steering</li> <li>• 4096 QAM</li> <li>• 160 MHz channel width</li> <li>• WPA3</li> <li>• MU MIMO</li> <li>• MLO (Multi-Link Operation)</li> <li>• Multi-RU</li> </ul>

## Product Functions


Feature	Description
<b>Flexible networking</b>	<p>Working with gateway supports the following features:</p> <ul style="list-style-type: none"> <li>• Plug and play</li> <li>• One-click pairing and automatic networking</li> <li>• Automatic Wi-Fi configuration synchronization</li> <li>• Mesh network (tree type)</li> </ul>
<b>Smart interconnection</b>	<ul style="list-style-type: none"> <li>• 2 upstream modes: Ethernet upstream mode and Wi-Fi upstream mode</li> <li>• Working modes: <ul style="list-style-type: none"> <li>- Routing mode (Ethernet or Wi-Fi upstream transmission)</li> <li>- Bridging mode (Ethernet or Wi-Fi upstream transmission, supporting 2-level cascading networking)</li> </ul> </li> <li>• Auto-sensing of LAN or WAN on the network port (Internet access available when the network cable is connected to either port)</li> <li>• Auto-detection of Internet access mode (PPPoE/DHCP)</li> </ul>
<b>O&amp;M</b>	<ul style="list-style-type: none"> <li>• Web UI</li> <li>• Dual-system software backup and rollback</li> </ul>
<b>L3 features</b>	<ul style="list-style-type: none"> <li>• PPPoE/static IP/DHCP</li> <li>• NAT/NAPT</li> <li>• Port forwarding</li> <li>• ALG, UPnP</li> <li>• DDNS/DNS server/DNS client</li> <li>• IPv6/IPv4 dual stack</li> <li>• Static/default routes</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Parent control</li> </ul>

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