

# K562 Datasheet 01

AX3000Mbps Wi-Fi 6 Edge ONT

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## Product Overview

Huawei OptiXstar K562 is a dual-band edge ONT that supports gigabit access over both Wi-Fi 6 and Ethernet gigabit network ports.

- Embedded AI (eAI) acceleration for value-added services, such as online games, online education, and teleconference\*
- Next-generation Wi-Fi 6 MU-MIMO technology
- VR/4K over Wi-Fi
- 160 MHz channel width
- 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)
- Remote management, installation and maintenance APP management, and user APP management



### NOTE

Contact Huawei to obtain the list of online games, online education, and teleconference supported by each software version.

## Physical Specifications

<b>Dimensions</b>	Φ 117 (big end) 109 (small end) x 145 mm	<b>Weight (Without power adapter)</b>	< 700 g
<b>Rated Power Input for Power Adapter</b>	100 - 240 V AC, 50/60 Hz	<b>System power supply</b>	12V DC, 1 A
<b>Static power consumption</b>	< 4 W	<b>Max power consumption</b>	< 12 W
<b>Indicator</b>	1 status indicators	<b>Buttons</b>	<b>Reset and WPS button</b>

<b>Memory</b>	128MB Flash, 256MB RAM	<b>Installation mode</b>	On the desk
<b>Operating temperature</b>	0°C to 40°C	<b>Operating humidity</b>	5% RH to 95% RH (non-condensing)
<b>Interface</b>	NNI: Wi-Fi or GE UNI: <ul style="list-style-type: none"> <li>• Wi-Fi uplink: 3GE + 2.4GHz&amp;5GHz Wi-Fi 6</li> <li>• GE uplink: 2GE + 2.4GHz&amp;5GHz Wi-Fi 6</li> </ul>	<b>Antenna type</b>	6 internal antennas

## Wi-Fi Specifications

<b>Supported Protocol</b>	IEEE 802.11 ax (2.4GHz&5GHz)	<b>MIMO</b>	2x2 MIMO (2.4GHz&5GHz)
<b>Antenna gain</b>	2.4GHz Wi-Fi 6: 2dBi 5GHz Wi-Fi 6: 4dBi	<b>Air interface rate</b>	574 Mbps (2.4GHz) 2402 Mbps (5GHz)
<b>Others</b>	WMM(Wi-Fi MultiMedia); Beamforming; Band steering; 1024-QAM, 160 MHz channel width, WPA3, and DL MU MIMO		

## Feature Highlights

<p><b>Home Network</b></p> <p>Working with gateway for the PremiumWi-Fi solution 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>• Wi-Fi channel optimization within the home network</li> <li>• Wi-Fi roaming (802.11k/802.11v) within the home network *</li> <li>• VR/4K over Wi-Fi</li> <li>• Network self-healing</li> <li>• Mesh network (tree type)</li> </ul>	<p><b>Home Network Management</b></p> <p>Working with the iMaster NCE platform supports the following features:</p> <ul style="list-style-type: none"> <li>• Remote management and maintenance</li> <li>• Technician APP**</li> <li>• eAI acceleration management</li> <li>• Management of mobile phone APPs** of users:           <ul style="list-style-type: none"> <li>– Installation guide</li> <li>– Visible home network topology</li> <li>– One-click health check</li> <li>– Wi-Fi configuration</li> <li>– Blacklist and parent control</li> </ul> </li> </ul>	<p><b>Smart interconnection</b></p> <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, which can be connected to the iMaster NCE platform)</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>
<p><b>Layer 3 Features</b></p> <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>	<p><b>O&amp;M</b></p> <ul style="list-style-type: none"> <li>• Web UI</li> <li>• Dual-system software backup and rollback</li> </ul> <p><b>Security</b></p> <ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Parent control</li> </ul>	<p><b>eAI Acceleration</b></p> <ul style="list-style-type: none"> <li>• Automatically identifies online games, online education, and teleconference services by eAI</li> <li>• Implements intelligent acceleration.</li> </ul>

\*: Supported when the STA supports 802.11k or 802.11v.


\*\* : Huawei provides the basic mobile APP version for carriers. Carriers can develop customized features based on the SDK provided by Huawei.

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