

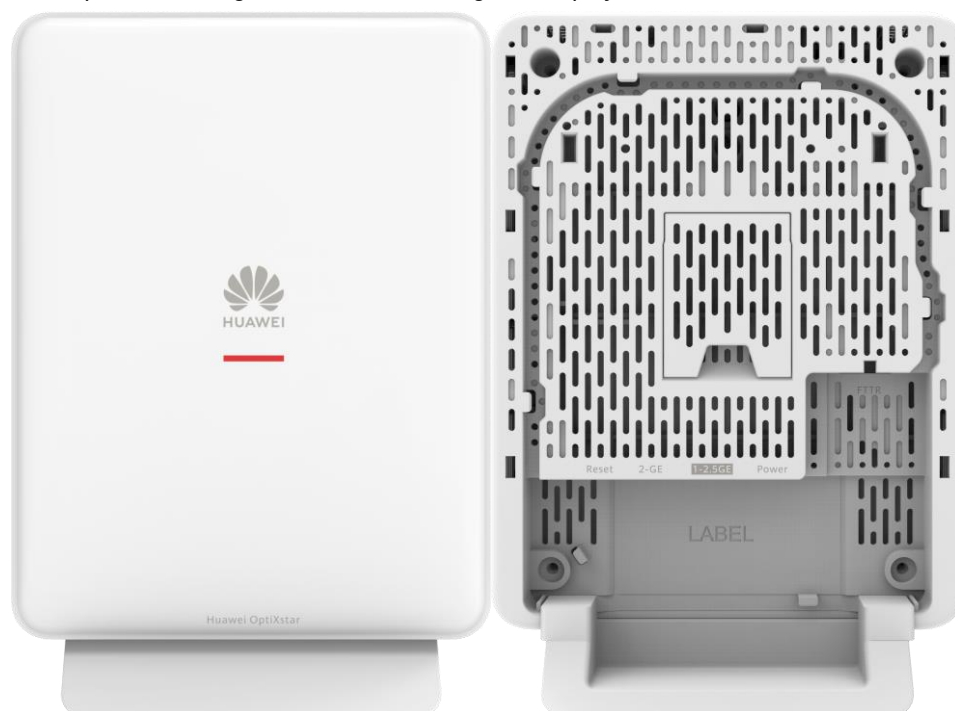
Huawei OptiXstar K156a-20 Datasheet

Sub FTTR for Huawei iFTTR OptiXstar F50

Overview

Huawei OptiXstar K156a-20 is a sub FTTR for the Huawei iFTTR OptiXstar F50. It supports ultra-gigabit broadband access through upstream fibers and provides users with ultra-gigabit dual-band Wi-Fi and ultra-gigabit network ports.

- Unique SRCN (seamless roaming coordinate network) technology, enabling imperceptible roaming in the whole house
- 360-degree coverage and beamforming by built-in smart antennas, ensuring IoT connection reliability
- IoT coffer, safeguarding home network security and privacy
- Youth mode¹ provided to safeguard Internet access by children
- Applicable to multiple installation scenarios, and can be placed vertically on a desk, mounted on a wall, clamped in a socket panel or embedded in a junction box (86 mm) using a bracket
- Space for coiling extra cables, enabling neat deployment



NOTE

The figures in this document may differ from the actual products. The actual products prevail.

Device Parameters

Dimensions (H x W x D)	157 mm x 120 mm x 30 mm (excluding the base and bracket)	System power supply	12 V DC, 1 A
Weight (without power adapter)	About 248 g (excluding the base and bracket)	Static power consumption	7 W
Installation mode	- Placed vertically on a desk - Wall-mounted using bracket: socket panel clamping, junction box (86 mm) embedding, and screw-locking on a wall	Maximum power consumption	12 W
Flash capacity	128 MB	NNI	Fiber for upstream transmission
RAM capacity	256 MB	UNI	1x2.5GE+1xGE+2.4GHz&5GHz Wi-Fi
Operating temperature	0°C ~ +40°C	Optical connector	SC/APC
Operating humidity	5%–95% RH, non-condensing	Button	- Reset button - Indicator/WPS button
Power adapter input	100 V to 240 V AC, 50/60 Hz	Indicator	One indicator: red and white

Interface Parameters

Optical port	Wi-Fi
- Port type: SC/APC - Transmission rate: theoretic downstream rate of 2.488 Gbit/s, theoretic upstream rate of 1.244 Gbit/s - Working with the main FTTR, plug-and-play	- IEEE 802.11 b/g/n/ax (2.4GHz) - IEEE 802.11 a/n/ac/ax (5GHz) 2 x 2 MIMO (2.4 GHz & 5 GHz) 4096 QAM 160 MHz bandwidth - WPA3/WPA2/WPA1 - MU-MIMO - Air interface rate: 574 Mbps (2.4GHz), 2402 Mbps (5GHz)
Ethernet port	
- MAC address learning - GE port: 10/100/1000 Mbps auto-sensing 2.5GE port: 10/100/1000/2500 Mbps auto-sensing	

Product Function

Home Network	O&M
- Working with the main FTTR to implement FTTR networking - C-WAN architecture, centrally controlling and coordinating network-wide Wi-Fi resources by the main FTTR - Home Wi-Fi slicing and ONT cross-network acceleration assurance - Automatic Wi-Fi configuration synchronization - Intelligent Wi-Fi optimization for a home network	- Web UI - Software dual-backup and rollback - Huawei HOUP smart upgrade

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| <ul style="list-style-type: none">• Seamless Wi-Fi roaming within a home network (SRCN roaming technology, compatible with 802.11k/802.11v²) | |
|---|--|

NOTE

1. The youth mode needs to be used together with NCE and the user app.
2. The SRCN roaming technology is subject to the version provided by your operator. The 802.11k/802.11v technology must also be supported by user terminals.

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