

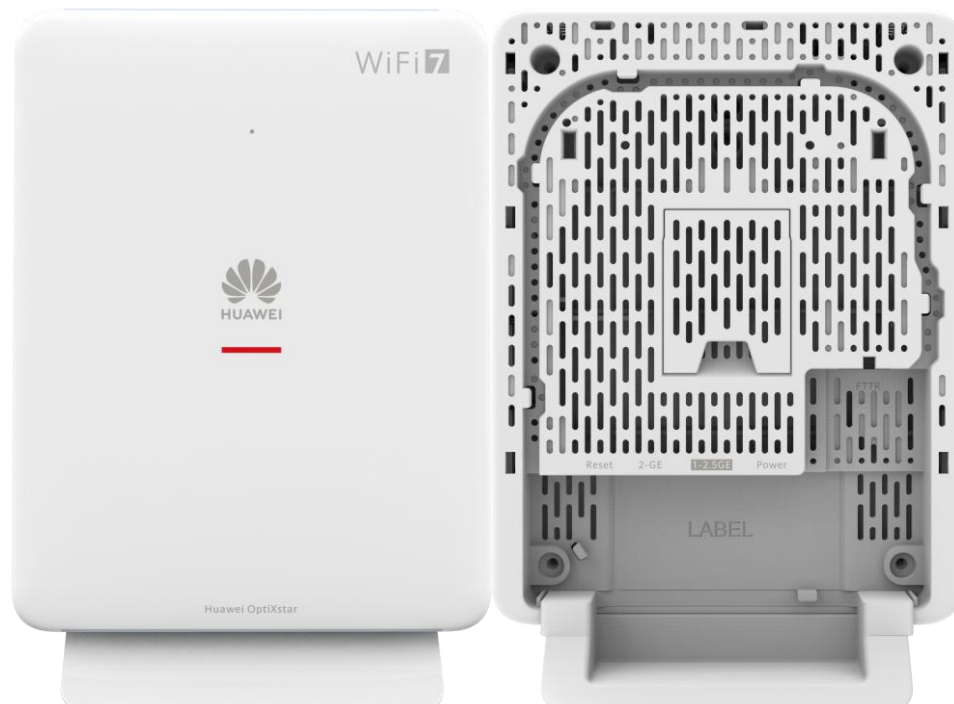
Huawei OptiXstar K251a-20 Datasheet

Sub FTTR for Huawei iFTTR OptiXstar F50 Plus

Overview

Huawei OptiXstar K251a-20 is a sub FTTR for the Huawei iFTTR OptiXstar F50 Plus. It supports ultra-gigabit broadband access through upstream fibers and provides users with ultra-gigabit dual-band Wi-Fi and ultra-gigabit network ports.

- Next-generation Wi-Fi 7 technology, featuring a higher rate and lower latency
- C-WAN architecture, centrally controlling and coordinating network-wide Wi-Fi resources by the Main FTTR to deliver ultra-gigabit broadband experience in the whole house
- 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	8 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/be (2.4GHz) - IEEE 802.11 a/n/ac/ax/be (5GHz) 2 x 2 MIMO (2.4 GHz & 5 GHz) 4096 QAM 160 MHz bandwidth - WPA3/WPA2/WPA1 - MU-MIMO - MLO (Multi-Link Operation) - Multi-RU - Air interface rate: 688 Mbit/s(2.4GHz); 2882 Mbit/s(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	- Web UI - Software dual-backup and rollback - Huawei HOUP smart upgrade

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| <ul style="list-style-type: none">• Intelligent Wi-Fi optimization for a home network• Seamless Wi-Fi roaming within a home network (802.11k/802.11v²) | |
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NOTE

1. The youth mode needs to be used together with NCE and the user app.
2. The 802.11k/802.11v technology must also be supported by user terminals.

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