

Huawei **iFTTR** OptiXstar F50

Huawei iFTTR, Making Your Home Smart



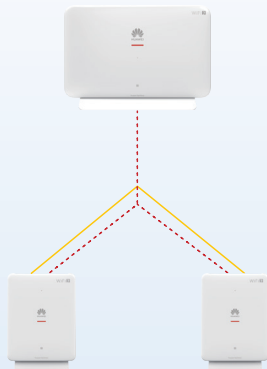
Watch the F50 new
product video to
learn more.



Features & Benefits

New C-WAN architecture

Optical and Wi-Fi synergy, providing superior performance



- ✓ 3000 Mbps¹
- ✓ Zero packet loss during roaming¹
- ✓ Latency: 10 ms¹
- ✓ 256 concurrent connections²

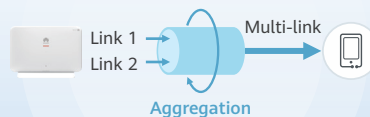
Home storage³

FTTR brings brand-new home storage experience through cloud-network synergy



Wi-Fi 7⁴

4K QAM, MLO link aggregation, and multi-RU



256 IoTs concurrency

Support whole-house intelligence IoT devices stable connection and smooth working



Cross-border acceleration



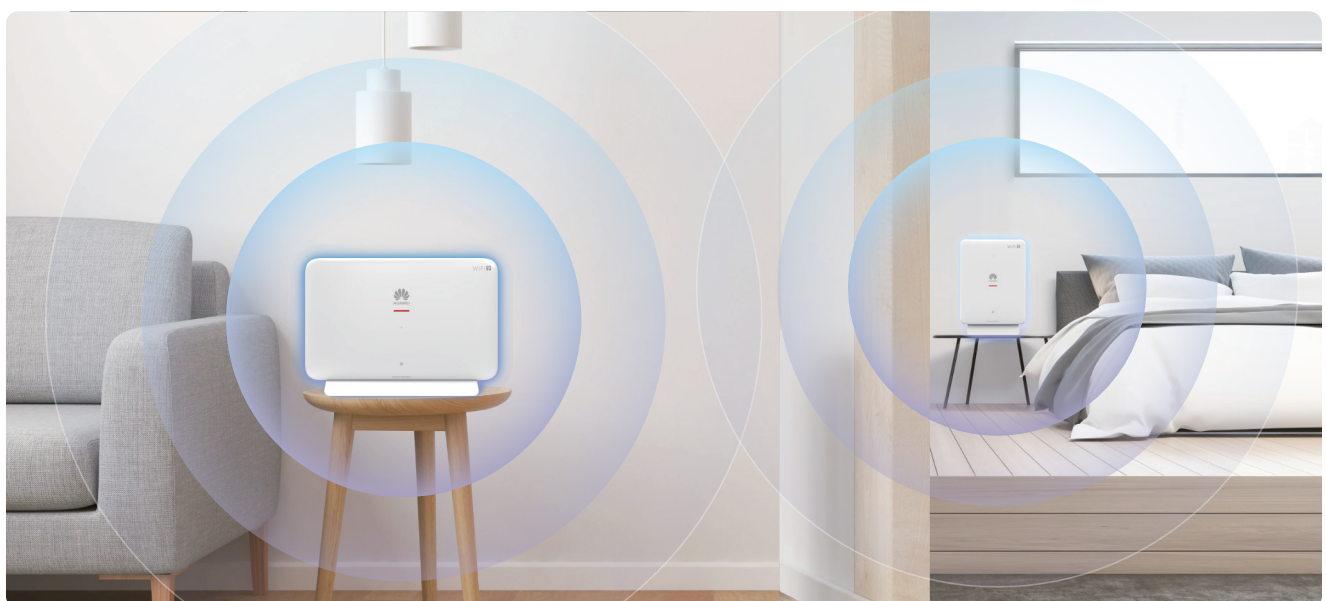
Self-Bonding Transparent Cable

- Tool-free
- Easy to operate
- More beautiful



New iFTTR C-WAN Architecture, Enabling Superior Performance

The C-WAN architecture builds a single network for an entire house. Through in-depth collaboration between FTTR and Wi-Fi, the rate can reach 3000 Mbit/s¹, the roaming handover latency is as low as 10 ms with zero packet loss¹, the Wi-Fi latency is as low as 10 ms¹, and stable concurrent connections are supported for up to IoT devices².



iFTTR F50 All-Optical Home Storage³, Configuration Free and Easy to Operate

Huawei FTTR supports the home storage function. With cloud-network synergy, Huawei FTTR supports OneHop backup, mobile phone capacity expansion in seconds, AI smart album, and family data sharing, bringing you a brand-new home storage experience.

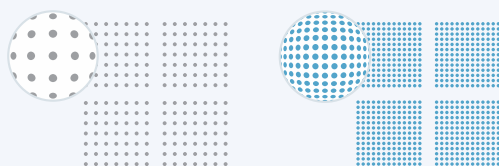


Wi-Fi 7, Enabling a 50%⁴ Higher Rate and Lower Latency

Wi-Fi 7 technology brings a higher density and capacity for data transmission and more refined and flexible network control, effectively improving transmission efficiency and stability when multiple users access the Internet concurrently.

4K QAM modulation mode, improving the rate by 20%⁴

10bits/symbol → 12bits/symbol

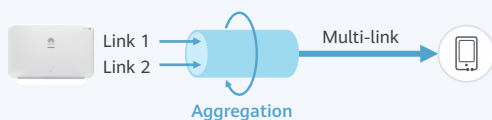


Wi-Fi 6 1K QAM

Wi-Fi 7 4K QAM

MLO link aggregation, improving the rate by 30%⁴

From single-link operation to the AP data links over multiple radios



Multi-link operation

Multi-RU for higher transmission efficiency and lower latency



Other devices



Wi-Fi 7 FTTR

User 1 User 2

iFTTR+IoT Coffer, Safeguarding Home Network Security and Privacy

Collaborative security protection for software and hardware, ensuring the security of IoT devices on the home intranet.



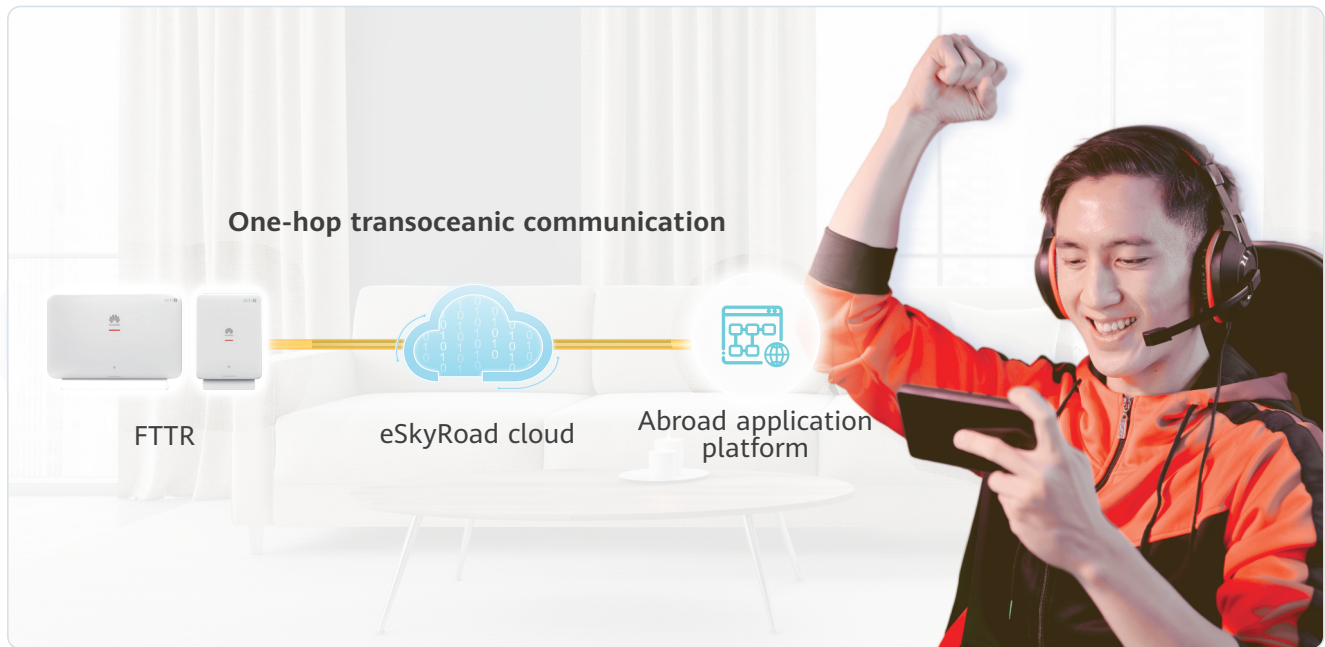
256 IoTs concurrency, Support whole-house intelligence IoT devices stable connection and smooth working

360-degree coverage and beamforming by built-in smart antennas, ensuring IoT connection reliability.



Cross-border acceleration⁷

FTTR ensures smooth experience in cross-border services, such as international games and e-commerce, through device-cloud synergy and cross-border acceleration based on Huawei Tianlu Cloud.



Parental Control

Teen mode and healthy Internet access⁶ can be enabled on a mobile app to manage children's network access duration, games, videos, and social activities. In addition, malicious websites can be blocked to avoid addiction.

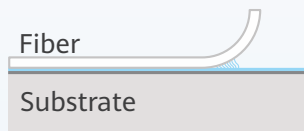


Self-Bonding Transparent Cable

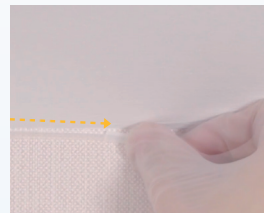
Continuous innovation, Stronger, Faster, Prettier, More Reliable.



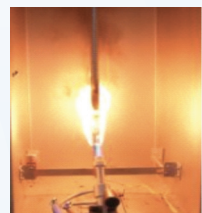
Tensile strength
50N



Adhesive force
>2.5N



Install speed
>3 m/min



Meet
CPR Dca

1. The data comes from Huawei labs. The actual data depends on the environment and terminal devices.
2. Concurrent access includes users on multiple frequency bands. The concurrent access performance varies with environments and terminals.
3. The Pro+ version provides the storage function by default. For the Pro and standard versions, users can choose whether to purchase the storage function on demand.
4. The data is obtained based on theoretical calculation and actual speed test in the lab.
5. The cross-border acceleration function must be used with NCE after a license is purchased.
6. The Teen mode and healthy Internet access functions need to be used together with NCE and the user app.

Products



Huawei **FTTR** All-Optical Smart Home OptiXstar F50

Main FTTR

Specifications	V281s	V261a-20	V166a-20
Dimensions Excluding the base and support, mm	157mm x 250mm x 30mm	148mm x 240mm x 30mm	148mm x 240mm x 30mm
NNI	XGS-PON	GPON	GPON
UNI	1 x 2.5GE + 3 x GE +1 x POTS + 1 x USB 2.0 + 1 x downlink optical port + 2.4 GHz & 5 GHz Wi-Fi 7 + NFC	1 x 2.5GE + 3 x GE +1 x POTS + 1 x USB 2.0 + 1 x downlink optical port + 2.4 GHz & 5 GHz Wi-Fi 7	1 x 2.5GE + 3 x GE +1 x POTS + 1 x USB 2.0 + 1 x downlink optical port + 2.4 GHz & 5 GHz Wi-Fi

Sub FTTR

Specifications	K251s	K251a-20	K156a-20
Dimensions Excluding the base and support, mm	157mm x 120mm x 30mm	157mm x 120mm x 30mm	157mm x 120mm x 30mm
NNI	Fiber uplink (2.5 Gbit/s downstream and 2.5 Gbit/s upstream)	Fiber uplink (2.5 Gbit/s downstream and 2.5 Gbit/s upstream)	Fiber uplink (2.5 Gbit/s downstream and 2.5 Gbit/s upstream)
UNI	1 x 2.5GE + 1 x GE+ 2.4 GHz & 5 GHz Wi-Fi 7 + NFC + 1xFTTR home storage interface	1 x 2.5GE + 1 x GE+ 2.4 GHz & 5 GHz Wi-Fi 7	1 x 2.5GE + 1 x GE+ 2.4 GHz & 5 GHz Wi-Fi

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