

Huawei's Next-Generation AirEngine Wi-Fi 6 Series Products

Powered by Huawei 5G to Redefine Wi-Fi Industry Benchmarks

Wi-Fi 6 Transforms Enterprises

Digital transformation is sweeping around the globe. It is therefore unsurprising that more enterprises are utilizing digital technologies to innovate services, improve user experience, and enhance operational efficiency. And these enterprises require high-bandwidth, stable, reliable, and seamless wireless networks. Analyst firms estimate that 60% of enterprises will include networks as the core of their digital strategies by 2023.

Huawei is a global leader in wireless network technology and keeps innovating to provide best-in-class services for enterprises. Huawei launches a full lineup of innovative AirEngine Wi-Fi 6 products that feature lightning speed as well as more stable coverage, roaming, and experience, helping enterprises of all sizes to achieve "100 Mbps@everywhere" continuous networking at scale. Powered by Huawei AirEngine Wi-Fi 6, digital enterprises can build high-quality wireless networks required for new applications such as AR/VR, 4K/8K video, and IoT, providing employees, partners, and customers alike with ultimate experience and accelerating towards the fully wireless campus era.

What Is Wi-Fi 6?

In October 2018, Wi-Fi Alliance renamed the next-generation WLAN technology 802.11ax Wi-Fi 6, and the previous two generations (802.11n and 802.11ac) Wi-Fi 4 and Wi-Fi 5. Wi-Fi 6 introduces cutting-edge technologies such as OFDMA and MU-MIMO (uplink and downlink) powered by 4G and 5G. It delivers 4 times higher bandwidth and more connections while achieving lower latency and energy consumption than Wi-Fi 5.

Huawei is a key contributor to the Wi-Fi 6 industry and standard, having submitted more than 240 Wi-Fi 6 proposals (15% of the total), more than any other wireless device vendor.

Unique Benefits of Huawei AirEngine Wi-Fi 6

◆ **Lightning speed: 10 Gbps and beyond**

Huawei AirEngine APs are the industry's only to provide 16 spatial streams and a throughput rate of up to 10.75 Gbps, delivering fiber-like network experience for heavy-traffic services such as AR/VR and 4K video.

◆ **More stable coverage: blind-spot-free full coverage**

Huawei AirEngine APs have 16 built-in Smart Antennas and use the 5G beamforming algorithm, achieving a 20% greater coverage distance and stronger signals than traditional antennas. The end result is blind-spot-free full coverage.

◆ **More stable applications: assured application experience**

Huawei AirEngine APs use the first-of-its-kind Dynamic Turbo technology to dynamically detect application types and implement HQoS, achieving ultra-low 10 ms latency for key applications and ensuring smooth experience of real-time applications such as AR/VR and voice.

◆ **More stable roaming: Lossless Roaming**

Leveraging SmartRadio Lossless Roaming technology, Huawei proactively optimizes the traditional roaming process and enables mobile terminals running Huawei EMUI or MagicUI to implement millisecond-level lossless roaming. This ensures smooth experience of office applications such as video conferencing and voice calls for users on the move.

◆ **"100 Mbps@everywhere" continuous networking at scale**

Powered by Huawei's 5G and AI technologies, AirEngine Wi-Fi 6 creates first-of-its-kind "100 Mbps@everywhere" continuous networking at scale. The industry-unique OFDMA and MU-MIMO joint scheduling algorithm offers significantly higher performance than the industry's Wi-Fi 6 in high-density access scenarios. Each terminal enjoys 100 Mbps bandwidth anytime, anywhere on the campus network.

Huawei AirEngine Wi-Fi 6 Series Products

Huawei's AirEngine Wi-Fi 6 portfolio helps various sectors (e.g. enterprise, education, finance, healthcare, government, manufacturing, commerce, and stadium) to build digital, all-wireless, and IoT-integrated office and production workspaces.



AirEngine 8760 series indoor APs

Flagship Wi-Fi 6 APs, ideal for large enterprises requiring high density and bandwidth:

- ◆ Innovative 16 spatial streams and up to 10.75 Gbps rate, delivering fiber-like experience
- ◆ Software-defined radio (SDR): flexible switching between two-radio and three-radio modes to accommodate high bandwidth and density
- ◆ Dynamic Turbo, Lossless Roaming, and co-scheduling through uplink and downlink OFDMA and MU-MIMO, ensuring experience of high-bandwidth, latency-sensitive applications such as VR and 4K video in multi-user high-density access scenarios
- ◆ Built-in independent radio for scanning and AI-powered intelligent radio calibration (in coordination with Huawei iMaster NCE CampusInsight), maintaining the network in its optimal status and improving network-wide user experience by 58% on average



AirEngine 6760 series indoor APs

Wi-Fi 6 APs ideal for midsize and large enterprises requiring high density:

- ◆ 10 spatial streams (4+6) in standard configuration, which can easily scale to 12 spatial streams (4+8) through the right to use (RTU) mode
- ◆ SDR: flexibly switching to three-radio mode (4+4+4) for high bandwidth and density
- ◆ Two built-in IoT slots and USB-port IoT expansion, enabling enterprise IoT applications



AirEngine 5760 series indoor APs

Wi-Fi 6 APs designed for SME office, business, and retail scenarios:

- ◆ 6 spatial streams (2+4) in standard configuration, which can easily scale to 8 spatial streams (4+4) through the RTU mode
- ◆ SDR: flexibly switching to three-radio mode (2+2+4) for high bandwidth and density
- ◆ Simultaneous working of five radios: dual-radio Wi-Fi 6 (2.4 GHz + 5 GHz), independent radio for scanning, Bluetooth 5.0, and IoT radio; multiple IoT applications such as RFID and ZigBee, carrying a wide range of services such as office and IoT



AirEngine 8760R series outdoor APs

Flagship Wi-Fi 6 APs, ideal for high-density scenarios such as large enterprises, stadiums, and public places:

- ◆ Innovative 16 spatial streams and up to 10.75 Gbps rate, delivering fiber-like experience
- ◆ Industry-unique 8T8R at 2.4 GHz, greatly enhancing the transmit and receive capabilities of Wi-Fi signals and delivering 40% greater coverage distance
- ◆ Flexible switching between two-radio and three-radio modes to accommodate high bandwidth and density



AirEngine 6760R series outdoor APs

High-performance Wi-Fi 6 APs, ideal for scenarios such as plazas, parks, and pedestrian streets:

- ◆ Dual-band Wi-Fi 6, 8x8 MU-MIMO, 8 spatial streams, and a rate of up to 5.95 Gbps
- ◆ Optical + electrical uplinks (5GE electrical port + GE electrical port + 10GE optical port), highly suited for a wide range of outdoor deployment scenarios
- ◆ IP68 rating, 6 KV/6 KA enhanced surge protection for Ethernet ports, and wide operating temperature range (-40°C to +65°C), meeting industrial-grade requirements

More Information

For more information about Huawei WLAN products, visit <http://e.huawei.com> or contact your local Huawei sales office.

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