

Huawei AirEngine Wi-Fi 6 Series Products






All-connected, On-demand, Always-On

Overview

With the growth of services that require high bandwidth and low latency, such as 4K video and VR/AR, enterprises are becoming more demanding of Wi-Fi. The latest generation of Wi-Fi — Wi-Fi 6 — will allow enterprises to achieve full wireless connection between all devices and applications.

Capitalizing on a profound understanding and grasp of 5G technologies, Huawei has launched AirEngine series Wi-Fi 6 products that ideally suit bandwidth-hungry services such as VR/AR interactive teaching, HD video streaming, multimedia, and desktop cloud, putting Wi-Fi 6 networks with ultra-high bandwidth, ultra-high concurrency, and ultra-low latency at users' fingertips.

New Challenges to Digital Services

Enterprise Office	Education	Retail	Airport	Public Wi-Fi
 <p>Enabling digital office space, transforming enterprises into learning and collaborative organizations</p> <ul style="list-style-type: none"> ➢ Full-wireless multi-screen interactive telepresence conference, 4K/8K HD video for collaboration and communication ➢ Wired connections replaced by wireless connections, 100 Mbit/s bandwidth per user on average anytime and anywhere, same network access experience as wired connections ➢ Seamless roaming, wireless office anytime and anywhere 	 <p>Digital wireless interactive classroom, stimulating learning interests</p> <ul style="list-style-type: none"> ➢ 60 STAs per AP concurrently playing HD videos in e-Classrooms ➢ Real-time AR/VR interaction experience for multiple players ➢ Real-time connection quality awareness, ensuring optimal experience of key applications 	 <p>IoT, accelerating digital transformation in the retail industry</p> <ul style="list-style-type: none"> ➢ Wi-Fi and IoT convergence, 100% success rate for electronic shelf label (ESL) updates, ESLs installed just once, TCO reduced by 50% ➢ Zero touch provisioning (ZTP), cloud-based management, not dependent on having trained professionals onsite ➢ Operation capabilities of warehousing automated guided vehicles (AGVs) improved by 30% 	 <p>Smart airport, delivering optimal traveling experience for passengers</p> <ul style="list-style-type: none"> ➢ Full-journey wireless services, passengers' queuing time shortened by 15%, 20% fewer operation personnel required ➢ 4x more concurrent users, a single AP covering two airport gates ➢ Dynamic radio calibration, flexible adaptation to the swarm effect of passenger flows, network-wide performance improved by 58% 	 <p>Ubiquitous massive connections in cities</p> <ul style="list-style-type: none"> ➢ Unified management and rapid deployment of 200,000 devices, no trained O&M personnel required ➢ Wide coverage in public areas such as parks, full use of small-angle directional antennas, coverage radius increased by 20% ➢ Offloading capability, seamless switchover between 5G and Wi-Fi 6 (Hotspot2.0, EAP-SIM)

Why Huawei?

- Huawei AirEngine series products deliver optimal user experience with features such as 5G-derived adaptive array antennas, intelligent radio calibration algorithm, and network slicing technology.
- The IEEE Wi-Fi 6 standards working group is chaired by Huawei, leader in and major contributor to Wi-Fi 6 standards.
- Huawei has built a world-leading AI-powered intelligent O&M system based on its 20+ years of devotion to network O&M, as well as continuous learning of 60,000 NEs and 200,000+ STAs distributed all over the world.



Product and Solution Highlights

Superb Performance

- The AirEngine AP7060DN provides 3.5 Gbit/s throughput on a single 5 GHz radio.
- The AirEngine 5760-10 is equipped with innovative adaptive array antennas (smart antennas), enabling signals to move with users and providing a 20% longer coverage radius than omnidirectional antennas.

Superior Experience

- Intelligent application acceleration: application awareness and hierarchical quality of service (HQoS), reducing network latency to 10 ms and preventing VR dizziness
- Intelligent lossless roaming: proactive roaming guidance and data buffer, achieving zero packet loss during STA roaming and improving the efficiency of warehousing AGVs by over 30%




Intelligent O&M

- Quick troubleshooting: innovative seven-dimensional experience evaluation system specific to networks, users, and applications, using the trained AI model to proactively discover 85% typical wireless network faults and shortening the average mean time to repair (MTTR) from 4 hours to about 10 minutes.
- Predictive O&M: AI-powered real-time awareness of network and STA behavior changes, predicting wireless network loads, dynamically adjusting radio resources, and improving the average user downlink rate by 58% (as tested by Tolly).

NOTE

- *The packet loss rate drops to 0% after network interface cards (NICs) of the AGVs are optimized and adjusted to the network.*
- *For third-party vendors which the AGV NICs have not yet been optimized for, Huawei can provide the corresponding driver interface documents upon request.*
- *Seven dimensions are: access duration, access success rate, device in-service rate, throughput fulfillment rate, capacity health, coverage, and roaming fulfillment rate.*

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	<p>World's First Commercial Wi-Fi 6 AP: AP7060DN</p> <ul style="list-style-type: none">➢ 802.11ax, 8x8 MU-MIMO, 6 Gbit/s for the device, one 2.5/5/10GE uplink port➢ Up to 1024 concurrent users supported➢ IoT expansion, Wi-Fi and IoT convergence, TCO reduced by 50%➢ Applicable to high-density scenarios, such as enterprise video conferences and multimedia e-classrooms
	<p>Cost-effective Wi-Fi 6 AirEngine 5760-10</p> <ul style="list-style-type: none">➢ 802.11ax, 2x2 MU-MIMO, 1.774 Gbit/s for the device➢ Up to 512 concurrent users supported➢ Built-in adaptive array antennas (smart antennas), enabling signals to move with users➢ Applicable to small- and medium-sized enterprises (SMEs), such as coffee shops and mobile offices
	<p>Next-generation WLAN AC AirEngine 9700-M</p> <ul style="list-style-type: none">➢ 16 x GE electrical ports, 12 x 10G SFP+ ports, 2 x 40G QSFP+ ports➢ 20 Gbit/s wireless forwarding rate➢ Managing up to 2048 APs and 32,000 users➢ Applicable to medium- and large-sized networks

More Information

For more information about Huawei WLAN products, visit <http://e.huawei.com>.

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