Huawei Enterprise
WLAN Product Overview

Huawei is committed to helping customers build highly efficient and reliable WLAN platforms. Huawei’s WLAN product family includes the 801.11 AP Series WLAN Access Points (AP) and AC Series Access Controllers.

The Huawei 802.11n AP Series WLAN access point (AP) family is the third generation of Huawei developed WLAN products. The Huawei 802.11n WLAN AP provides multi-service transmission capabilities to meet the needs of various high-density deployment scenarios and different physical environments such as classrooms, offices, stadiums, hotels, hospitals, and dormitories. Based on the evolution of WLAN architecture, APs can be classified into controller-based APs (Fit APs) and independent APs (Fat APs).

Using Fat APs is the most efficient way to build small-scale wireless network with simple deployment and easy maintenance. Fit APs are quickly replacing Fat APs in enterprises of different scales and industries as both WLAN technology and the market develop. Automatic software upgrade technologies enable Fit APs to implement seamless expansion of wireless networks and to protect customer investments. Huawei 802.11n APs can be used indoors or outdoors and seamlessly integrate with an AC and Network Management System (NMS) to implement real-time monitoring, spectrum analysis, wireless location, beamforming, load balancing, roaming, WIDS/WIPS, integration with the wired network, BYOD solution with security-policy control and flexible access control.

Huawei 802.11n AP Series WLAN Access Point Family

Huawei Premium Series AP

Huawei’s premium AP series integrates the latest technologies, such as 3x3 MIMO and multi-core components to provide an improved wireless network environment and a better end user experience. Huawei premium APs provide highly reliable and secure wireless services and radio frequencies for high-density or large-scale deployment scenarios, such as exhibition centers, medical organizations, factories, and logistics networks.

AP7110 SN-GN/AP7110DN-AGN

- 802.11n 3x3 MIMO AP supports three spatial streams and provides up to 900 Mbit/s total data rate on the AP7110DN-AGN and up to 450Mbit/s on the AP7110SN-GN.
- Indoor, industrial-grade AP has a high level of physical protection for use in challenging environments.
- AP7110SN-GN complies with 802.3af/at Power over Ethernet, and AP7110DN-AGN complies with 802.3at Power over Ethernet Plus, providing easy installation.
- Uses external antennas. Antenna gains can be configured and deployment locations determined according to networking requirements.
- AP7110SN-GN supports 2.4 GHz frequency band.
- AP7110DN-AGN supports 2.4 GHz and 5 GHz frequency bands.
Huawei Enhanced Series AP

The Huawei enhanced 802.11n AP series uses a new-generation chip that provides higher performance and improved coverage accuracy, enabling superior support for delay-sensitive multimedia services and shared data services. The enhanced AP is particularly suitable for simple building structures with open or semi-open wireless network environments that have high density of users, and have high capacity demands. Huawei Enhanced APs are available as indoor APs, indoor high power APs, and outdoor APs.

AP6010SN-GN/AP6010DN-AGN
Uses an elegant design and is intended for use in medium- and large-scale deployment • and high density scenarios, such as educational institutions, enterprise offices, airports, stations, and retail.

• Uses an energy-efficient, new-generation 2x2 MIMO chip
• Supports Fat/Fit AP mode
• Provides up to 300 Mbit/s total data rate on the AP6010SN-GN and up to 600Mbit/s on the AP6010DN-AGN and has built-in antennas
• Complies with 802.3 af/at Power over Ethernet, providing easy installation
• AP6010SN-GN supports 2.4 GHz frequency band
• AP6010DN-AGN supports 2.4 GHz and 5 GHz frequency bands

AP6510DN-AGN/6610DN-AGN
Industry-grade AP; with a high level of physical protection, for use in pedestrian • areas, factories, and other challenging environments

• Supports fast start-up in low-temperature environments
• Reduces maintenance costs with a built-in lightning protector
• Uses an energy-efficient, new generation 2x2 MIMO chip
• Supports Fat/Fit AP mode
• Provides up to 600 Mbit/s total data rate
• AP6510DN-AGN supports an RJ45 Ethernet interface, complying with 802.3at Power over Ethernet Plus
• AP6610DN-AGN supports an RJ45 Ethernet interface, an optical interface, and an AC power supply

AP6310SN-GN
• High-power indoor AP, using a 2G/3G Distributed Antenna System (DAS)
• Provides a maximum transmit power of 500 mW.
• For use where there is high attenuation and where wide indoor coverage is required
• Complies with 802.3af/at Power over Ethernet, providing easy installation
• Single-frequency 802.11n AP that provides up to 150 Mbit/s total throughputs
As a third-generation WLAN product, the Huawei AC series access controller performs all-around management. It simplifies network configuration and monitors the WLAN with a Fit access point (AP) + AC networking. Huawei access controllers are available in two models:

- **AC6605**: A stand-alone or rack-mountable access controller for medium to large-scale enterprises
- **AC6005**: A stand-alone or rack-mountable access controller for small to medium-scale enterprises

The two models provide secure, reliable, and easy-to-manage network services for large-scale campus networks, enterprise branch offices, or small-scale enterprises. Huawei access controllers deliver the following features:

- Licenses for managing multiple APs
- Flexible networking and forwarding
- Fine-grained user group management policies
- Integrated WLAN management and visualized network topology
- Support for inline and bypass networking
- Supported by Huawei eSight network management application
- Secure and reliable N+1 backup

Huawei Standard Series AP

Huawei 802.11n APs provide wireless network access for small- and medium-scale enterprises and enterprise branches, and are suitable for low user-density scenarios, such as mobile offices, guest access, and hotel rooms. Standard APs help organizations to reduce costs and create highly-efficiently, secure, reliable, and mobile office environments.

**AP5010SN-GN/AP5010DN-AGN**

Satisfies enterprise users’ requirements for high security, high performance and reliable wireless services.

- Uses an energy-efficient, new-generation 2x2 MIMO chip.
- Supports Fat/Fit AP mode.
- Complies with 802.3af/at Power over Ethernet, providing easy installation.
- Easy to deploy, manage, and maintain.
- Provides up to 300 Mbit/s total data rate on the AP5010SN-GN and up to 600 Mbit/s on the AP5010DN-AGN and has built-in antennas.
- AP5010SN-GN supports 2.4 GHz frequency band.
- AP5010DN-AGN supports 2.4 GHz and 5 GHz frequency bands.

Huawei also provides WLAN design and optimization services that are tailored to individual networking environments, with technical accumulation in wireless transmission and data communications. Huawei’s highly efficient wireless solutions and end-to-end delivery capability can meet different requirements of your intelligent wireless networks.

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ACs for Medium to Large-Scale Enterprises

The Huawei AC6605-26-PWR access controller integrates 1000M Ethernet switch functionality for both wired and wireless access control. The AC6605-26-PWR offers user with considerable flexibility in configuring access points (APs). Used together with cost-efficient Huawei APs, The AC6605-26-PWR is also easy to install and maintain, providing a low operation cost.

**Huawei AC6605-26-PWR information**

- The AC6605-26-PWR supports up to 512 APs and 10K STAs.
- The AC6605-26-PWR provides PoE+ power for 24 interfaces, supports (24) 1 GE interfaces, (2) 10 GE interfaces, and 128Gbps switching capacity.
- The AC6605-26-PWR integrates AC and LSW units to support wired and wireless access and aggregation
- The AC6605-26-PWR can be deployed as a standalone device, or standard rack mounted (442 mm x 420 mm x 43.6 mm in size)

AC6605-26-PWR

ACs for Small to Medium-Scale Enterprises Applications

Huawei AC6005 has two models: AC6005-8 and AC6005-8-PWR (providing PoE capability). The AC6005 is an access controller (AC) of a large capacity and high performance. It is highly reliable, easy to install and maintain, and features such advantages as flexible networking and energy conservation. The AC6005 resides at the aggregation layer to provide the high-speed, secure, and reliable WLAN service.

**AC6005 information**

- Supporting up to 128 APs and 2K STAs
- Providing PoE power for 8 interfaces, and 16Gbps switching capacity
- Integrating AC and LSW units, supporting wired and wireless access and aggregation
- The AC6005 can be deployed as a stand-alone device, or standard rack

**Why Huawei**

Huawei has 20 years of core IP experience and offers the largest data center product portfolio in the industry. Huawei’s solutions cover network infrastructure, disaster recovery, security, and network management. Huawei data center products and solutions have been widely used in large enterprises, vertical industries, Internet corporations, and carrier networks.

As a world-leading network solution provider, Huawei has a long-term plan for data center network development and a firm determination to invest in the data center field for the long run. To support this determination, Huawei has extensive research capabilities, with world-class experts, rich experience in the research and development of data center standards, and broad chip development capabilities.

The CE series switches and Cloud Fabric network solution are products of Huawei’s deep experience in working with IP networks during the last decade. They enable customers to build next-generation data center cloud networks that support sustainable development of cloud services into the foreseeable future.