NODEXON
redefining networks

Outdoor Access Point NX-AP8540-5

OVERVIEW

For next-generation high-speed wireless network applications, the NX-AP8540-5 is a top-class 802.11ac wireless access point. Security, RF control, mobile access, QoS, seamless roaming, and other Wi-Fi features are all handled by the switch. The APs provide Wi-Fi user data forwarding, sophisticated security, and access control with simplicity when paired with Nodexon NX-WS Wireless Controller Series/ Cloud AC. The IP67-rated industrial-class AP enclosure can resist harsh outside conditions, making device installation and maintenance easier.

Internal omnidirectional antenna is included in the NX-AP8540-5. To overcome various deployment problems, a large selection of external antennas is also available. Automatic switching between external and internal antennas is supported by both AP types.

FEATURES HIGHLIGHTS

❯ Lightning Arrester & Built-in Omnidirectional Antenna (External Antenna Optional)

❯ Outstanding Environmental Adaptability (IP67, -40-55°C

❯ 802.11ac Superior Wireless Performance

❯ Flexible Gigabit Uplink

❯ Comprehensive Remote Management

❯ Intelligent Device Recognition

❯ Hybrid management: from a single AP to thousands of APs, including appliance, private cloud, and public cloud deployment choices.

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PRODUCT FEATURES

HIGH PERFORMANCE & RELIABILITY

802.11ac Superior Wireless Performance

The NX-AP8540-5 supports 802.11n@2.4GHz and 802.11ac@5GHz, with access speeds of up to 1300Mbps. The excellent wireless performance improves the user experience, increases the number of concurrent users, and improves signal coverage.

Intelligent Device Recognition

End devices running popular operating systems like iOS and Android are intelligently recognized by the APs.

The Industry's Most Flexible Gigabit Uplink

The NX-AP8540-5 have a 10/100/1000Base-T Ethernet uplink port that eliminates the LAN port as a wireless access bottleneck. The data transmission duty is taken up by the SFP Base-X port for efficient network setup.

Easy-to-use Mount-Kit

For easy deployment optimization, an adjustable mount-kit is included by default. To adapt to varied circumstances, the APs may be simply changed 60° horizontally and 30° vertically.

Flexible WDS Mode

WDS (Wireless Distribution System) is used by the APs to allow connectivity of multiple APs or wireless bridging with less than five hops. Even across great distances, wireless bridging is possible. Point-to-multipoint is also supported by the outdoor APs. The characteristics overcome the difficulties of outside deployment to enable large-scale and remote high-speed wireless coverage.

Industry-leading Local Forwarding Technology

The 2 Deploying with the Nodexon NX-WS Wireless Controller Series, outdoor APs use industry-leading local forwarding technology. The APs also have control over whether or not the data is transmitted through the wireless controller. The 802.11ac network can advance large-scale, delay-sensitive, and real-time transmissions thanks to local forwarding technology.

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Seamless Roaming Experience

The APs function in perfect harmony with the NX-WS Wireless Controllers, allowing wireless users to travel freely over Layer 2 and Layer 3 networks without losing data.

Abundant QoS Policies

A wide range of QoS rules are supported by the AP. WLAN/AP/STA-based bandwidth limiting modes, for example, favor important services over others.

Built-in Smart Antenna

The NX-AP8540-5, which have built-in antennas, may accomplish real-time antenna beam switching based on the position of access devices, guaranteeing an ideal wireless experience. Internal and exterior antenna swapping is also supported by the APs.

COMPREHENSIVE SECURITY POLICIES

User Data Encryption

The NX-AP8540-5 provides complete data security protection using encryption methods such as WEP, TKIP, and AES, ensuring the wireless network's data transfer security.

RF Security

The APs use the RF probe scanning mechanism in conjunction with Nodexon's NX-SNC Smart Network Commander and NX-WS Wireless Controllers to detect illegal access points or other RF interference sources. Once discovered, the APs will send an alert to the network administrator, allowing them to keep an eye on possible threats and use in the wireless environment.

Virtual AP Technology

The AP can support up to 16 ESSIDs (per radio) and 16 802.1Q VLANs using virtual AP technology. Subnets or VLANs with the same SSID can be encrypted and isolated independently by the network administrator. Separate authentication and encryption modes are available.

Wireless IPv6 Access

To enable IPv6 forwarding on a wireless network, comprehensive IPv6 functionalities are provided. Users of IPv4 and IPv6 can connect to the ACs through tunnels, allowing IPv6 apps to run over the wireless network.

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QUALCOMM

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	NX-AP8540-5
Hardware Specification	Qualcomm QCA9563+QCA8337+QCA9886 chip solution
	Memory:128MB; Flash memory:16MB
	Power amplifier chip:2.4G SE2576L, 5.8G SKY85728-11 ; Set watchdog chip
Physical Interface	1*10/100/1000Mbps WAN RJ45
	1*10/100M/1000Mbps LAN RJ45
	1*RESET
Wireless rate	2.4GHz :450Mbps / 5GHz :867Mbps
Radio frequency	Transmitting power: 500mW(27dBm)
	Receiver Sensitivity : -96dBm)
	Frequency: 802.11ac/n/a : 5.18GHz-5.825GHz 802.11b/g/n : 2.412GHz-2.482GHz
Antenna	2.4GHZ 11dBi directional antenna / 5.8GHZ 13dBi directional antenna
Power Supply	Power supply mode:POE power supply Power adapter:48V 0.5A(Configured)
Power dissipation	<20w
Levels of protection	IP67
Installation	Derrick / Support
Shell Material	ABS
MTBF	>250000H
Size	300*180*50mm
Indicator Light	Power \ WiFi \LAN \WAN
Working Environment	Working Temperature: -10°C-65°C Storage Temperature: -40°C-70°C Operation Humidity: 10%~90% RH Non-condensing Storage Humidity: 5%~90% RH Non-condensing