Dell PowerConnect W-AP104 and W-AP105 Access Points

The multifunction Dell™ PowerConnect™ W-AP104 and W-AP105 are best selling indoor, dual-radio 802.11n access points (AP) designed for high-density deployments in offices, hospitals, schools and retail stores. These compact, high speed APs delivers wire-like performance at data rates up to 300 Mbps per radio. The W-AP Access Points and W-Series Controllers complement Dell's existing PowerConnect portfolio of networking solutions, and securely and efficiently extend wired network capabilities to the mobile workforce.

The W-AP104 features two 2x2 MIMO dual-band 2.4-GHz/5-GHz radios with detachable antenna while the W-AP105 features the same radios with integrated internal antennas. Both are built to provide years of trouble-free operation and are backed by a extended lifetime warranty.

Working with Dell's line of centralized PowerConnect W Series Controllers, the W-AP104 and W-AP105 deliver secure, high-speed wireless network services for user mobility that works seamlessly within enterprise, branch and campus network deployments.

802.11n enables the use of wireless as a primary connection with speed and reliability comparable to a wired LAN. It also increases performance by utilizing techniques such as channel bonding, block acknowledgement and MIMO radios. Advanced antenna technology also increases range and reliability.

Key to ensuring wire-like performance and reliability is Dell's unique Adaptive Radio Management (ARM) capability, which manages the 2.4-GHz and 5-GHz radio bands to deliver maximum client performance. ARM enables mixed 802.11a, b. g and n clients to interoperate at the highest performance levels via band steering, airtime fairness between clients and mitigating channel interference between APs.

The multifunction W-AP104 and W-AP105 can be configured through the controller to provide wireless LAN (WLAN) access with part-time air monitoring, dedicated air monitoring for wireless intrusion protection, Remote AP (RAP) functionality or secure enterprise mesh. The W-AP104 and W-AP105 features dual 100/1000 BASE-T Ethernet interfaces and operate from standard 802.3af Power-over-Ethernet (PoE) sources or a 12-volt DC power supply.

Dell PowerConnect W-AP104 and W-AP105 Access Points

Managed dual band, dual radio access points with 802.11n performance and automated configuration for reduced deployment time

Specifications

Operating modes

- Multiservice concurrent 802.11a/n + b/g/n WLAN

- Can be configured to operate individually or simultaneously as:
    - 802.11a/b/g/n access point
    - Air monitor
    - Remote AP
    - Secure enterprise mesh

- Backward compatible with 802.11a/b/g and mixed-mode 11a/b/g/n deployments

Radios

- Multifunction, dual radio capable of 2.4-GHz and 5-GHz operation

- Both 802.11n radios implement 2x2 MIMO with two spatial streams, providing up to 300 Mbps data rate per radio

- Maximal ratio combining (MRC) for improved receiver performance

Wireless radio specifications

- Supported frequency bands (country-specific restrictions apply):
    - 2.400 to 2.4835 GHz
    - 5.150 to 5.250 GHz with Dynamic Frequency Selection (DFS) capability
    - 5.250 to 5.350 GHz with Dynamic Frequency Selection (DFS) capability
    - 5.470 to 5.725 GHz with Dynamic Frequency Selection (DFS) capability
    - 5.725 to 5.850 GHz with Dynamic Frequency Selection (DFS) capability

- Available channels: Controller-managed, dependent upon configured regulatory domain

- Transmit power:
    - 2.4 GHz: Up to 23 dBm (limited by local regulatory requirements)
    - 5 GHz: Up to 23 dBm (limited by local regulatory requirements)
    - Transmit power configurable in increments of 0.5 dBm

- Supported radio technologies:
    - 802.11b: Direct-sequence spread-spectrum (DSSS)
    - 802.11a/g/n: Orthogonal frequency division multiplexing (OFDM)
    - 802.11n: 2x2 MIMO with 2 spatial streams

- Supported modulation types:
    - 802.11b: BPSK, QPSK, CCK
    - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM

- Association rates (Mbps):
    - 802.11b: 1, 2, 5.5, 11
    - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
    - 802.11n: MCS0 - MCS15 (6.5 Mbps to 300 Mbps)
    - 802.11n high-throughput (HT) support: HT 20/40
    - 802.11n packet aggregation: A-MPDU, A-MSDU

Antenna

- W-AP104:
    - 4 x RP-SMA antenna interface connectors for external antenna support

- W-AP105:
    - 4 x integrated, omni-directional antennas.
    - Maximum antenna gain:
    - 2.4GHz/2.5dBi
    - 5GHz /4.0dBi

Interfaces

- Network:
    - 1 x 10/100/1000Base-T Ethernet (RJ45), auto-sensing, MDI/MDX

- Power:
    - 1 x DC power connector

- Other:
    - 1 x RJ45 console interface

Power options

- 48V DC 802.3af or 802.3at PoE+

- External AC power providing 12V DC to AP (adapter sold separately)

- Maximum power consumption: 12.5 watts

Mounting

- Ceiling tile rail (15/16" & 9/16" recessed or non-recessed)

- Desk stand and wall outlet mount plate

- Wall box mount bracket (for US single gang wall mount)

- Solid wall stand-off

Mechanical

- 132 mm x 135 mm x 45 mm (5.2" x 5.3" x 1.8")

- Weight: 300g (10.56 oz)

Certifications

- Wi-Fi certified: 802.11a/b/g/n, Wi-Fi Multimedia (WMM)

- WPA, WPA2, 802.1X

Extended Life Warranty*

Select PowerConnect products carry an Extended Life Warranty with Basic Hardware Service (repair or replacement) for as long as you own the product. *Warranty extends until five years after end of product model sales. PowerConnect switches not only provide the quality, reliability and capability you expect from Dell, but also the protection that comes with an Extended Life Warranty.
Details at Dell.com/warranty

Learn more at Dell.com/PowerConnect-W-Series

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