Dell PowerConnect W-AP134/135 Access Point

Dell™ PowerConnect™ W-Series W-AP134 and W-AP135 indoor 802.11n access points (APs) are designed to maximize performance for mobile devices in high density Wi-Fi environments and ensure strong threat protection using integrated MACSec* security.

These multifunctional APs deliver wire-like performance at data rates up to 450 Mbps per radio. Taking advantage of 802.11n technology, the W-AP134 and W-AP135 employ three spatial streams to deliver 50% more data throughput in high-density environments compared to previous-generation W-Series APs like AP124.

The W-AP134 and W-AP135 feature two 3x3 MIMO dual-band 2.4-GHz/5-GHz radios. The W-AP134 has external antenna interfaces, while the W-AP135 features the same radios with internal antennas. Both are built to provide years of trouble-free operation and are backed by a limited lifetime warranty.

The W-AP134 and W-AP135 feature dual 10/100/1000BASE-T Ethernet interfaces and are capable of operation from standard 802.3af and 802.3at power-over-Ethernet (PoE) sources. The secondary Ethernet interface (active only when supplying 802.3 at PoE or DC power to the access point) enables secure authorized backhaul for wired network-attached devices.

Working with Dell PowerConnect W-series centralized Mobility Controllers, the W-AP134 and W-AP135 is designed to deliver secure, high-speed network services that move users to a "wireless where possible, wired where necessary" network access model.

The key to ensuring wire-like performance and reliability is Dell PowerConnect W-Series unique Adaptive Radio Management and spectrum analysis capabilities, which manage the 2.4-GHz and 5-GHz radio bands to deliver maximum client performance while mitigating any RF interference.

The multifunction W-AP134 and W-AP135 can be configured through the Dell PowerConnect W-sereis Mobility Controller to provide WLAN access with part-time air monitoring for wireless IPS and spectrum analysis. They can be configured as dedicated air monitors within the campus WLAN or can be remotely located. They can enable wireless mesh networking for high performance network backhaul where wired cabling is not available.

High performance dual band, dual radio 802.11n Access point with 3x3 MIMO and data rate of 450Mbit/s.

Specifications

Operating mode

- Multiservice concurrent 802.11a/n + b/g/n
- Backward compatible with 802.11a/b/g and mixed mode 802.11a/b/g/n deployments
- Air Monitor, Remote AP, Spectrum Monitor, Secure enterprise mesh

Radios

- Multifunction, dual radio capable of 2.4-GHz and 5-GHz operation
- Both 802.11n radios implement 3x3 MIMO with up to three spatial streams, providing up to 450Mbps data rate per radio
- Maximum ratio combining (MRC) for improved receiver performance
- Maximum transmit power per radio: 23dBm

Wireless radio specifications

- AP type: Dual-radio, dual-band 802.11n indoor
- Supported Frequency Bands (country-specific restrictions apply):
  - 2.400 - 2.4835 GHz
  - 5.150 - 5.250 GHz/5.250 - 5.350 GHz/5.470 - 5.725 GHz/5.725 - 5.850 GHz with Dynamic Frequency Selection (DFS) capability
- Available Channels: Controller-managed, dependent upon configured regulatory domain Supported Radio Technologies:
  - 802.11b: Direct-sequence spread-spectrum (DSSS)
  - 802.11a/g/n: Orthogonal frequency division multiplexing (OFDM)
  - 802.11n: 3x3 MIMO with up to three spatial streams
- Supported Modulation Types:
  - 802.11b: BPSK, QPSK, CCK
  - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Maximum Transmit Power (aggregated for three active transmit chains):
  - 2.4 GHz: up to 23 dBm (limited by local regulatory requirements)
  - 5 GHz: up to 23 dBm (limited by local regulatory requirements)
- Association Rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: MCS0 – MCS23 (6.5 Mbps to 450 Mbps)
- 802.11n High-Throughput (HT) Support: HT 20/40
- 802.11n Packet Aggregation: A-MPDU, A-MSDU

Antenna

- AP-134: Three RP-SMA antenna interfaces for external dual-band antennas
- AP-135: Six internal downtilt omni-directional antennas; three per frequency band
  - 2.4 to 2.5 GHz/3.5 dBi
  - 5.150 to 5.875 GHz/4.5 dBi

*MACSec available in 2H 2011

Power

- 48 V DC 802.3af PoE or 802.3at PoE+
- 12 V DC external AC supplied power (adapter sold separately)
- Maximum power consumption: 15 watts

Interfaces

- 2x10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
- 48 V DC 802.3af PoE or 802.3at PoE+
- 1 x RJ-45 console interface

Mounting

- Standard:
  - Wall mounting using built-in mount features
  - Recessed ceiling-tile rail mounting using one of two adapters supplied with the AP (9/16" and 15/16" rails)

Mechanical

- Dimensions/Weight:
  - 170 mm x 170 mm x 45 mm (6.69" x 6.69" x 1.77")
  - Unit: 760 g (1.68lb)

Environmental

- Operating:
  - Temp: 0° C to +50° C (+32° F to +122° F)
  - Relative humidity: 5 to 95% non-condensing
- Storage and Transportation Temperature Range:
  - Temp: -40° C to +70° C (-40° F to +158° F)

Certifications

- Wi-Fi certified: 802.11a/b/g/n

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