Dell PowerConnect W-IAP134 and W-IAP135 Instant Access Points

Dell™ PowerConnect™ W-IAP134 and W-IAP135 are 802.11n instant access points (IAP) with built in controller deliver the affordability and simplicity of an entry-level Wi-Fi network with enterprise-grade Wi-Fi network.

The W-IAP134 features two 3x3 MIMO dual-band 2.4-GHz/5-GHz radios with detachable antenna, while the W-IAP135 features the same radios with integrated internal antennas. Both delivers data rate of 450Mbit/s per radio and are built to provide years of trouble-free operation and are backed by a extended lifetime warranty.

Ease of deployment

PowerConnect W-IAP is designed to be up and running in minutes. From a laptop, simply connect wirelessly to perform over-the-air provisioning in three easy steps. To expand the network, simply add more PowerConnect W-IAPs—configuration is automatically applied to the new units. You can dedicate one radio in a dual-radio W-IAPs to form a wireless mesh type of network and eliminate cabling between W-IAPs.

Enterprise features

The Virtual controller technology integrated within a PowerConnect W-IAP 134 and W-IAP135 delivers enterprise grade capabilities such as AP auto discovery, 802.1x authentication, role-and device-based policy enforcement, rogue detection and adaptive radio management (ARM) to optimize Wi-Fi client behavior.

Management and visibility

PowerConnect W-IAP includes a built-in web interface to manage a WLAN network of up to 16 W-IAPs. Multiple PowerConnect W-IAP networks can be securely and centrally managed by Dell PowerConnect W-Series AirWave software management suite, allowing W-IAPs to operate in hundreds of remote locations. With Dell PowerConnect W-Series AirWave, IT has real-time visibility into users, mobile devices, Wired and Wireless LANs infrastructure all from a single management console.

Investment protection

As WLAN requirements expand, PowerConnect W-IAP can be converted via firmware change to an 802.11n campus AP and migrate to a centralized Mobility Controller architecture capable of supporting 2048 APs.

Easy to use, ultra high performance, dual band, dual radio, 802.11n indoor wireless AP with 3x3 MIMO and built in controller that delivers data rate of 450Mbit/s per radio

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

- IAP-134: Three RP-SMA antenna interfaces for external dual-band antennas
- IAP-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

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