



Dell PowerConnect W-AP92 & W-AP93 Access Points

The multifunction Dell™ PowerConnect™ W-AP92 and W-AP93 are entry-level indoor, single-radio 802.11n access points (APs) designed for low-density deployments in offices, hospitals, schools and retail stores. These compact, high-speed APs deliver wire-like performance at data rates up to 300 Mbps. 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-AP92 features a single 2x2 multiple input, multiple output (MIMO) dual-band 2.4-GHz/5-GHz radio with external antennas while the W-AP93 features the same radio with integrated internal antennas. Both APs are built to provide years of trouble-free operation and are backed by a one-year warranty.

Working with Dell's line of centralized PowerConnect W Series Controllers, the W-AP92 and W-AP93 deliver secure, high-speed wireless network services for user mobility that works seamlessly within enterprise, branch office 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 the W-AP Series 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-AP92 and W-AP93 can be configured through the controller to provide wireless LAN (WLAN) access with part-time air monitoring, dedicated air monitoring for wireless IPS, Remote AP (RAP) functionality or secure enterprise mesh. The W-AP92 and W-AP93 each feature a 10/100/1000BASE-T Ethernet interface and can operate from standard 802.3af power-over-Ethernet (PoE) sources or a 12-volt DC power supply.

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Managed Access points with 802.11n performance and automated configuration for reduced deployment time

Specifications

Operating modes

- Multiservice concurrent 802.11a/n or 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, single radio capable of 2.4-GHz or 5-GHz operation
- 802.11n radio implements 2x2 MIMO with 2 spatial streams, providing up to 300 Mbps data rate
- Maximal ratio combining (MRC) for improved receiver performance

Wireless radio specifications

- AP type: Single radio, dual-band 802.11n indoor
- Supported frequency bands (country-specific restrictions apply):
 - 2.400 to 2.4835 GHz
 - 5.150 to 5.250 GHz with Dynamic Frequency Support (DFS) Capability
 - 5.250 to 5.350 GHz with Dynamic Frequency Support (DFS) Capability
 - 5.470 to 5.725 GHz with Dynamic Frequency Support (DFS) Capability
 - 5.725 to 5.850 GHz with Dynamic Frequency Support (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-AP92: dual, RP-SMA interfaces for external antenna support
- W-AP93: two integrated, omni-directional antennas (supporting up to 2x2 MIMO with spatial diversity)
 - 2.4 GHz/2.5 dBi
 - 5 GHz/5.8 dBi

Interfaces

- 1 x 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing, MDI/MDX
- 1 x RJ-45 serial console interface

Power options

- Ethernet IEEE 802.3af Power over Ethernet (48V DC)
- External AC power providing 12V DC to AP (adapter sold separately)
- Maximum power consumption: 10 watts

Mounting

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

Mechanical

- 120 mm x 130 mm x 35 mm (4.7" x 5.1" x 1.4")
- Weight: 375 g (13.2 oz)

Environmental

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

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](http://Dell.com/warranty)



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*Select PowerConnect products carry an Extended Life Warranty with Basic Hardware Service. Warranty covers repair or replacement of the product for as long as it remains in use by the customer. In the event of discontinuance of product manufacture, Dell Extended Life Warranty extends until five (5) years after end of product model sales. Warranty limits fan and power supply to five (5) years from date of purchase. Warranty does not include troubleshooting, configuration, or other advanced service provided by Dell ProSupport. For more information see dell.com/warranty.

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

