

Dell PowerConnect W-AP68 Access Point

The Dell PowerConnect W-Series multifunction W-AP68 is a low-cost 802.11n access point (AP) designed for small, very low-density deployment areas in offices, hospitals, schools and retail stores. This compact non-MIMO AP delivers wire-like performance at data rates up to 150 Mbps. The W-AP68 features one 2.4-GHz 802.11n radio with two internal antennas.

As an 802.11n AP, the W-AP68 works with the complete portfolio of Dell's PowerConnect W-Series centralized Mobility Controllers. 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 and block acknowledgement. Advanced antenna technology also increases range and reliability.

A key to ensuring wire-like performance and reliability is Dell's unique Adaptive Radio Management, which helps maximize client performance and ensures that APs stay clear of interference.

The multifunction W-AP68 can be configured through the Dell's PowerConnect W-series Mobility Controllers to provide WLAN access with part-time air monitoring, dedicated air monitoring for wireless IPS, Remote AP (RAP) functionality or secure enterprise mesh. The W-AP68 feature a 10/100BASE-T Ethernet interface and can operate from standard Power-over-Ethernet (PoE) sources or a 12-volt DC power supply.

Entry level, secure wireless mobility for the mobile workforce.

Specifications

Operating mode

- 802.11b/g/n Access Point (AP)
- Air Monitor (AM), spectrum monitor
- Remote AP (RAP)
- Secure enterprise mesh

Radios

- Software-configurable Single radio capable of supporting 2.4 GHz operation 802.11n capable, providing up to 150Mbps data rate

Wireless radio specifications

- AP type: single-radio, single-band 802.11n indoor
- Supported frequency bands (country-specific restrictions apply):
 - 2.400 to 2.4835 GHz
- Available channels: Controller-managed, dependent upon configured regulatory domain
- Maximum transmit power:
 - AP-68: 2.4 GHz: 20 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)
 - 802.11g/n: Orthogonal frequency division multiplexing (OFDM)
 - 802.11n: 1x1 with one spatial stream
- Supported modulation types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Antenna diversity for improved receiver performance
- Association rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
 - 802.11n: MCS0 – MCS57 (6.5 Mbps to 150 Mbps)
- 802.11n high-throughput (HT) support: HT 20/40
- 802.11n packet

Antenna

- Integrated, Omni-directional antenna elements (supporting receive special diversity). Antenna gain: 3dBi (max)

Interfaces

- 1 x 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
- 1 x RJ-45 serial console interface
- Power:
 - 1 x DC power connector

Power

- 48V DC 802.3af PoE or 802.3at PoE+
- 12V DC connector for use with external AC supplied power (adapter sold separately)
- Maximum power consumption: 8 watts

Mounting

- Wall mount
- Non-recessed ceiling rail mount (15/16")

Mechanical

- Dimensions/weight (unit)
 - 140 mm x 105 mm x 38 mm (5.5" x 4.1" x 1.5")
 - 145 g (5.1 oz)

Environmental

- Operating:
 - Temperature: 0° C to 40° C (32° F to 104° F)
 - Relative humidity: 5% to 95% non-condensing
- Storage and transportation temperature range
 - 40° C to 70° C (-40° F to 158° F)

Certifications/Regulatory

- Wi-Fi certified 802.11 b/g/n



Product meets EMC, safety and wireless standards of over 50 countries inclusive of; USA (FCC), Canada, EU, Japan, Korea, China. For more country-specific regulatory information, and approvals, please see your Dell representative.

Minimum OS version

- 5.0.3.2

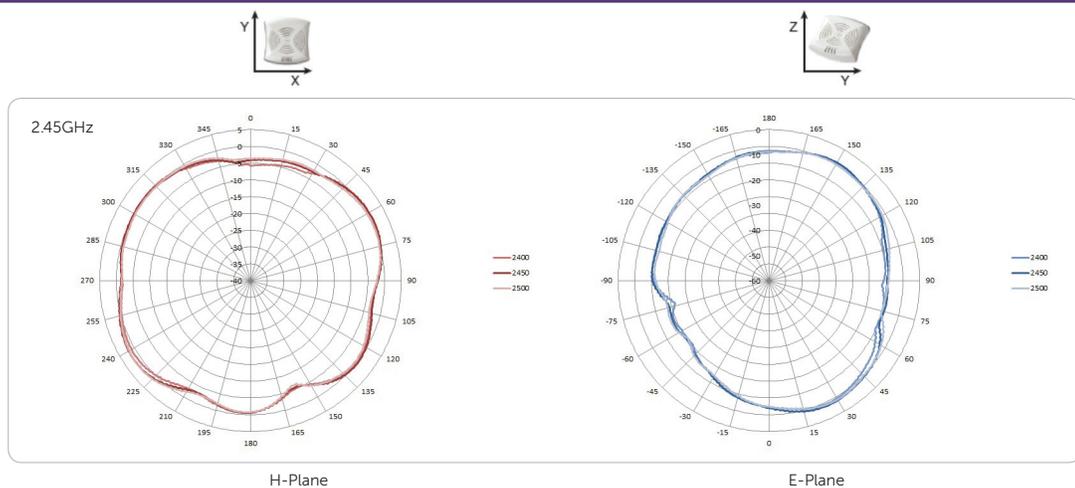
Extended Life Warranty*



W-AP68 RF Performance Table

	Max TX power per active TX chain (dBm)	RX Sensitivity (dBm)
	2.4 GHz	
802.11b		
1Mbps	20	-96
2Mbps	20	-96
5.5Mbps	20	-94
11Mbps	20	-93
802.11g		
6Mbps	20	-96
9Mbps	20	-96
12Mbps	20	-96
18Mbps	20	-95
24Mbps	20	-92
36Mbps	19	-89
48Mbps	18	-85
54Mbps	18	-83
802.11n HT20		
MCS0	20	-96
MCS1	20	-95
MCS2	20	-93
MCS3	20	-90
MCS4	19	-87
MCS5	18	-82
MCS6	17	-81
MCS7	16	-80
802.11n HT40		
MCS0	20	-93
MCS1	20	-93
MCS2	20	-90
MCS3	20	-86
MCS4	19	-83
MCS5	18	-79
MCS6	17	-77
MCS7	16	-76

W-AP68 Antenna Pattern Plots



Ordering Information

Part number	Description
W-AP68	Dell PowerConnect W-AP68 AP (802.11b/g/n) – Integrated Antennas
W-AP-AC-UN	12 V DC Universal AC Power Adapter Kit - North America, Japan, United Kingdom, Italy, EC (Schuko), Australia, China, India, Korea
AP-DC-CAR	12VDC Car Power Adapter Kit

*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 any power supply, antennae or accessories to one (1) year from date of purchase. Warranty does not include troubleshooting, configuration, or other advanced service provided by Dell ProSupport. The Extended Life Limited Hardware Warranty is not transferrable. For more information see dell.com/warranty.

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