

Dell Networking W-IAP3WN & W-IAP3WNP Wired + Wireless Instant Access Points

Simplified wireless for remote offices and teleworkers

Deliver secure 802.11n wireless network access to corporate resources using the multi-functional W-IAP3WN. Deliver enterprise-grade connectivity ideal for small offices and remote workers.

The Dell Networking W-IAP3WN Instant Access Point is a powerful platform for a small branch office or for power-users who work from a home office.

Features

- Two Fast Ethernet ports to connect additional users or devices
- One USB port for connecting a cellular modem
- Up to 300Mbps wireless data rate with 2x2 MIMO 11n technology
- Power-over-Ethernet (PoE) option available for powering external IP phones or other devices
- VPN capability when connecting to a W-Series controller-based network
- Extended Lifetime Warranty

Virtual controller technology

Networking Instant Access Points deliver enterprise-grade capabilities without the need for additional hardware or separate wireless controller. The built-in virtual controller is capable of controlling multiple Instant Access Points regardless if they are onsite or dispersed across remote locations.

Robust functionality

The W-IAP3WN can perform key tasks such as: auto discovery, authentication, policy enforcement, rogue detection, and Adaptive Radio Management (ARM) to optimize Wi-Fi connectivity and even adjust for RF interference.

Establish an extensive WLAN with ease

W-Series Instant Access Points are designed to be up and running in minutes. Simply plug the device to your network connection and perform a quick configuration using your wireless laptop. To expand the network, just connect another Instant Access Point to the network and configuration is automatically uploaded to the new unit.

Centralized management and remote visibility

Dell W-Series Instant Access Points are fully manageable as standalone wireless devices, utilizing an integrated web interface.

You can add multiple Instant Access Points easily, and they will automatically download the configuration from the primary Instant Access Point.

In addition, multiple Instant Access Point networks can be managed from a single location using W-Series AirWave management suite. The Dell W-Series AirWave Management Suite delivers a consolidated view of your global wireless infrastructure and provides centralized management for multi-vendor networks.

Optionally, Dell OpenManage™ Network Manager (OMNM) can manage the full line of Dell Networking products including the wired and wireless switches in your network.

Investment protection

W-Series Instant Access Points are flexible and can be converted to standard access points as your WLAN expands. This feature allows you to migrate your existing investment to a centralized Mobility Controller architecture capable of supporting hundreds and thousands of access points and providing more advanced wireless intrusion protection and powerful spectrum analysis capabilities.

Flexible connectivity ideal for small offices and remote workers requiring VPN tunnels or LAN connections.

Specifications

Operating mode

- Wireless: 802.11 b/g/n WLAN
- Instant AP, Remote AP

Radios

- Single radio capable of supporting 2.4 GHz operation
- 802.11n radio implements 2x2 MIMO with 2 spatial streams, providing up to 300 Mbps data rate per radio

Wireless radio specifications

- Supported frequency bands (country-specific restrictions apply):
 - 2.400 to 2.4835 GHz
- Available channels: dependent upon configured regulatory domain
- Transmit power: Configurable in increments of 0.5 dBm
 - 2.4GHz: Up to 23 dBm (limited by local regulatory requirements)
- Supported radio technologies:
 - 802.11b: Direct-sequence spread-spectrum (DSSS)
 - 802.11g/n: Orthogonal frequency division multiplexing (OFDM)
 - 802.11n: 2x2 MIMO with 2 spatial streams
- Supported modulation types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Association rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11g: 6, 9, 12, 18, 24, 36, 48, 54
 - 802.11n: MCS0 MCS15 (6.5 Mbps 300 Mbps)
 - 802.11n high-throughput (HT) Support: HT 20/40
 - 802.11n packet aggregation: A-MPDU, A-MSDU

RF management

- Automatic transmit power and channel management control with auto coverage hole correction via Adaptive Radio Management (ARM)
- Maximum ratio combining (MRC) for improved receiver performance

Advanced features

- Wireless intrusion detection
- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys

Antenna

- 2 x integrated, Omni-directional antenna elements (supporting up to 2x2 MIMO with spatial diversity). Maximum antenna gain: 2.0 dBi

Interfaces

- Network:
 - 3 x 10/100 Base-T Ethernet (RJ45), auto-sensing, MDI/MDX. E0 (WAN port), E1 and E2 (2 LAN ports).
 - Optional 802.11af PoE (15.4 watts) on the E2 port for IP phone and other equipment's
- Power:
 - 1 x DC power connector
- Other:
 - 1 x USB 2.0 port
 - 1 x four pin console interface (Custom)

Power in

- AC-to-DC power adapter (included)
 - W-IAP3WN:
 - AC input: 100-240 volts AC/0.5 A
 - DC output: 12 volts DC/1.5 A
 - W-IAP3WNP:
 - AC input: 100-240 volts AC/0.75 A
 - DC output: 48 volts DC/0.75 A
- Maximum power consumption:
 - W-IAP3WN:
 - Maximum (excluding USB): 4.0 watts
 - Maximum (using USB): 6.5 watts
 - W-IAP3WNP:
 - Maximum (excluding USB and PoE): 5.5 watts
 - Maximum (using USB, no PoE): 8.0 watts
 - Maximum (using USB, full PoE): 26 watts

Mounting

- Desktop stand included
- Wall-mount bracket optional

Mechanical

- 129 mm x 109mm x 64 mm (5.1" x 4.3" x 2.5")
- Weight: 180g (6.6 oz)

Certifications/Regulatory



- Wi-Fi certified 802.11 b/g/n
- Complies with part 15 of the FCC rules for Home use
- Product meets EMC, safety and wireless standards of over 100 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

- Instant software version 6.1.3.4-3.1.0.0
- Controller release for RAP conversion ArubaOS 6.2.0.0

Extended Life Warranty*



Front

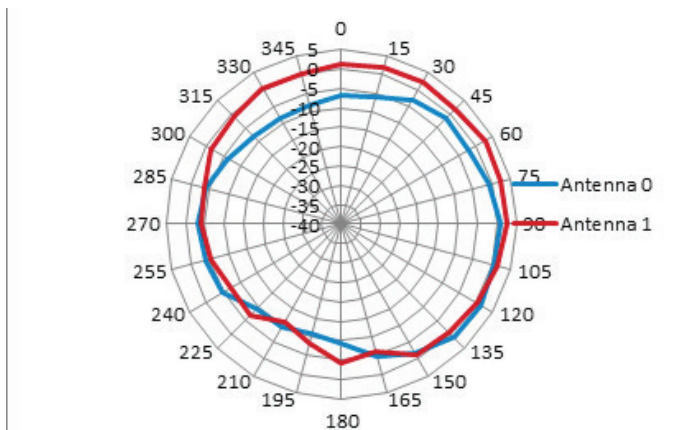
Back

RF performance table		
	Max TX power per active TX chain (dBm)	RX Sensitivity (dBm)
	2.4 GHz	
802.11b		
1Mbps	16	-97
2Mbps	16	
5.5Mbps	16	
11Mbps	16	-90
802.11g		
6 Mbps	16.0	-90
9 Mbps	16.0	
12 Mbps	16.0	
18 Mbps	16.0	
24 Mbps	16.0	
36 Mbps	16.0	
48 Mbps	13.0	
54 Mbps	11.0	-75
802.11n HT20		
MCS0/8	16.0	-90
MCS1/9	16.0	
MCS2/10	16.0	
MCS3/11	16.0	
MCS4/12	16.0	
MCS5/13	13.0	
MCS6/14	11.0	
MCS7/15	10.0	-72

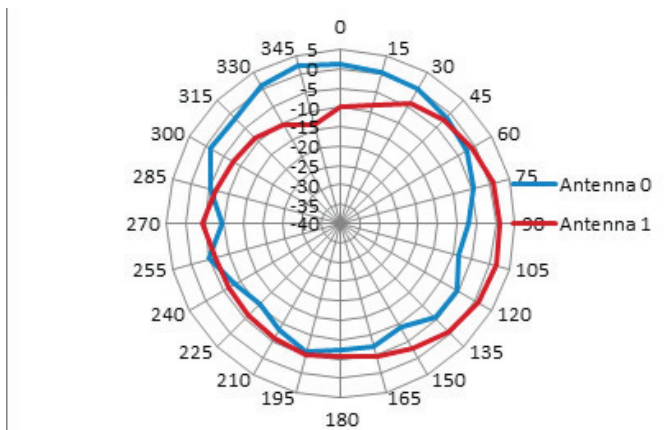
Maximum capability of the hardware provided. Maximum transmit power will be limited by local regulatory settings.

Antenna gain plots

All plots are for Channel 6 (2,436 MHz)



H-plane (top view)



E-plane (side view)

Ordering information	
Part number	Description
W-IAP3WN	Dell W-IAP3WN IAP (802.11b,g,n). Integrated Antenna, Single radio with built in 3 port 10/100BASE-T switch and USB port. 300Mbps data rate.
W-IAP3WN-US	Dell W-IAP3WN IAP (802.11b,g,n). Integrated Antenna, Single radio with built in 3 port 10/100BASE-T switch and USB port. 300Mbps data rate. – Restricted regulatory domain: United States
W-IAP3WN-JP	Dell W-IAP3WN IAP (802.11b,g,n). Integrated Antenna, Single radio with built in 3 port 10/100BASE-T switch and USB port. 300Mbps data rate. – Restricted regulatory domain: Japan
W-IAP3WNP	Dell W-IAP3WNP IAP (802.11b,g,n). Integrated Antenna, Single radio with built in 3 port 10/100BASE-T switch, USB port and PoE out. 300Mbps data rate. Note: Unit ships without AC power cord.
W-IAP3WNP-US	Dell W-IAP3WNP IAP (802.11b,g,n). Integrated Antenna, Single radio with built in 3 port 10/100BASE-T switch, USB port and PoE out. – Restricted regulatory domain: United States. Note: Unit ships without AC power cord.
W-IAP3WNP-JP	Dell W-IAP3WNP IAP (802.11b,g,n). Integrated Antenna, Single radio with built in 3 port 10/100BASE-T switch, USB port and PoE out. – Restricted regulatory domain: Japan. Note: Unit ships without AC power cord.
W-IAP3WN-MNT	W-IAP3 series wall-mount kit
AP-AC-48V36	48 V DC/36 watts AC-to-DC power adapter. Note: Does not include country-specific AC power cord.
AP-CBL-SER	W-IAP3 series serial adapter cable (proprietary to DB9 female)

*Select Networking 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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