



Professional Installation Guide Supplement

Products covered in this supplement are listed in [Table 1](#).

Table 1 *Supported Products*

Part Number	Description
W-IAP92	Dell PowerConnect W-IAP92 Instant Access Point, 802.11abgn, dual-band, single radio, antenna connectors. Unrestricted Regulatory Domain. This products should be considered as "Rest of World" products and must not be used for deployments in the United States, Japan, or Israel.
W-IAP92-US	Dell PowerConnect W-IAP92 Instant Access Point, 802.11abgn, dual-band, single radio, antenna connectors. Restricted Regulatory Domain - US
W-IAP92-JP	Dell PowerConnect W-IAP92 Instant Access Point, 802.11abgn, dual-band, single radio, antenna connectors. Restricted Regulatory Domain - JP



CAUTION: Read this document before installing and using your product.



NOTE: For the latest information and documentation related to this product, see support.dell.com.

This device must be installed and used in strict accordance with the manufacturer's instructions. This product is suitable for installation in plenum spaces (air handling). Only power adapters approved by the manufacturer may be used. For replacement, contact your supplier or distributor.

Installation of this product must comply with local regulations and codes. When this product is used with an external antenna/s, please refer to the installation documentation provided for the antenna/s.

Changes or modifications to the device not approved by the manufacturer of the product could void the user's authority to operate the equipment and will void the warranty of the product. No user serviceable parts; all repairs and service must be handled by a qualified service center.

All products using external antennas must be professionally installed, and the transmit power of the system must be adjusted by the professional installer/s to ensure that the system's EIRP (Equivalent Isotropically Radiated Power) is in compliance with the limit specified by the regulatory authority of the country of deployment.

During deployment of the system and its initial setup, professional installer must ensure that the allowed EIRP limit is not exceeded (in the Country of exploitation of this equipment). To achieve this, the professional installer must use the approved/recommended antennas by the manufacturer (dell.com). The professional installer must enter the antenna gain in Controller software by selecting the AP from the Access Point tab, click edit, click more, select External Antenna tab and enter the antenna gain values. Additional attenuation between the device and antenna may have to be measured or calculated.

The following formula can be used to calculate the EIRP limit related RF power based on selected antennas (antenna gain) and feeder (Coaxial Cable loss):

$$\text{EIRP} = \text{Tx RF Power (dBm)} + \text{GA (dB)} - \text{FL (dB)}$$

Table 2 Formula Variable Definitions

Parameter	Description
EIRP	Limit specific for each country of deployment
Tx RF Power	RF power measured at RF connector of the unit
GA	Antenna gain
FL	Feeder loss (including the connectors' loss)

Antenna Types and Maximum Antenna Gains

Table 3 contains the maximum allowable antenna gains for these products (see Table 1)


Table 3 Antenna Types and Gain Values

Frequency Band	Type	Gain (dBi)
2.4 GHz	Dipole/Omni	6
	Panel	12
	Sector	12
5 GHz	Dipole/Omni	6
	Panel	14
	Sector	14



NOTE: The antenna information provided above reflects approved antennas for the initial release of the device. For a full list of antennas approved/recommended by the manufacturer, see support.dell.com.

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