



**PND10-W Series,
8-10 dBi gain**



Panel Antennas for 802.11ac WiFi 6x MIMO

- Directional Antenna for 802.11ac; backwards compatible to earlier models
- Quad-polarization MIMO (i.e. Horizontal, Vertical, +45° Slant, and -45° Slant)
- Mounting hardware allows vertical tilt adjustment of up to 24-degrees
- Attractive, compact package measuring 9" x 9" (23cm x 23cm)

WiFi 802.11ac networks are designed for high density, high capacity coverage using beamforming technology. To perform as they are intended to perform, the network antennas need to match the capabilities of the modems and provide the same 6x MIMO coverage; this new Panel Antenna provides that level of performance.

The PND10-W-AC6-GRY Panel Antenna features six separate connection ports in order to provide optimum MIMO (multiple-input-multiple-output) performance for the new WiFi 802.11ac modems.

The antenna achieves MIMO performance by using multiple polarizations for the six elements housed within the antenna. This 6-port MIMO antenna features quad-polarization: vertical, horizontal, slant -45°, and slant +45° for state-of-the-art MIMO technology.

The antenna provides simultaneous coverage on both 2.4-2.5 & 4.9-6.0 GHz, which allows the antenna to operate on the 5 GHz band for 802.11ac, but also be backwards compatible for 802.11n and 802.11b/g modems.

The antenna offers 8 dBi gain on the 2.4 GHz band and 10 dBi gain on the 5 GHz band. These gain levels provide wireless coverage over a longer distance while still providing adequate beamwidth coverage

for easy installation and alignment.

The antenna covers 100° azimuth x 60° elevation at 2.4 GHz and 40° azimuth x 45° elevation at 5 GHz. Alignment is also aided by the adjustable tilt mount that comes with the antenna.

The antenna gets high marks for its efficiency with a minimum front-to-back ratio of 20 dB and an antenna isolation figure of greater than 20 dB. It is designed to handle up to 20 watts of power.

Compact and attractive, this antenna will fit in well with any 802.11ac WiFi MIMO installation.

Model #	Frequency
PND10-W-6AC-GRY	2.4-2.5 & 4.9-6.0 GHz
Description: Directional Antenna for 802.11ac applications. Quad-polarization MIMO (i.e. Horizontal, Vertical, +45° Slant, and -45° Slant).	
L-Bracket Mount with U-Bolt. Mounts up to 2.5" dia. (6.3 cm).	

Specifications			
Frequency:	2.4-2.5 & 4.9-6.0 GHz	Operating Temp:	-40° to +85° C
Gain:		Beamwidth:	
2.4-2.5 GHz	8 dBi gain	2.4-2.5 GHz	100° azimuth x 60° elevation
4.9-6.0 GHz	10 dBi gain	4.9-6.0 GHz	40° azimuth x 45° elevation
Polarization:		Impedance:	50 ohms
Connector #1	Horizontal	VSWR:	2:1 max over range
Connector #2	+45° Slant	Maximum Power:	20 Watts
Connector #3	-45° Slant	Case:	9" x 9" x 1.6" (23 cm x 23 cm x 4 cm)
Connector #4	Vertical	Case Material:	Light Grey ASA plastic
Connector #5	+45° Slant	Connectors (all 6):	Rev Pol SMA jack (female)
Connector #6	-45° Slant	Shock & Vibration:	EN 61373
Front to Back ratio:	>20 dB	Water ingress:	IPx5
Antenna isolation:	>23 dB		