



PN8 Series  
 8 dBic gain

## Panel Antennas 8 dBic RFID

- 8 dBic gain is the maximum allowable gain for general RFID applications
- Mounting hardware allows vertical tilt adjustment of up to 24-degrees
- Mid-range coverage, such as in a warehouse setting

Mobile Mark offers 8 dBic RFID Patch Antennas for both the 868 MHz and 915 MHz bands.

Frequency band use varies by region. US models cover 902-928 MHz with Right Hand Circular Polarity. Models for Europe and many other parts of the world cover 865-870 MHz with Left Hand Circular Polarization.

The Patch Antenna is intended for mid-range to long-range coverage, such as in a warehouse setting. The antenna offers 8 dBic gain with a beamwidth of 70-degrees elevation and 70-degrees azimuth.

The unique high efficiency design provides a broadband match, making it possible to maintain the VSWR at 1.5:1 typical and 2:1 max, over the entire range.

The rugged radome and heavy aluminum back plate make it well suited for industrial applications. The ASA radome is both impact resistant and UV resistant. The antenna is operational from -40° to +85° Celsius and can handle a maximum power of 20 watts.

The PN8 Series antenna is relatively compact for the gain. It measures 9" x 9" x 1.6" (23 cm x 23 cm x 4 cm) and is typically supplied with 1-foot (30cm) of RG-58 cable with an SMA connector. Connectors may vary per customer request.

The antenna is pipe mounted with a rugged L-bracket and U-Bolt mounting kit. This allows for a secure and easy installation. A slot in the standard mounting bracket allows for vertical tilt adjustment of up to 24-degree.

The PN8 Series has a DC shorted front end and is compatible with antenna sensing circuits found in the current generation of RFID readers.

If your reader has a feature that requires a 10K Ohm resistor, the PN8 antenna can be special ordered with this feature.

Model #	Frequency
PN8-915RCP-1C-WHT-12	902-928 MHz
PN8-868LCP-1C-WHT-12	865-870 MHz
PN8-915-10K-1C-WHT-12	902-928 MHz
PN8-868-10K-1C-WHT-12	865-870 MHz

Note: models specified above indicate 1 foot (30 cm) of cable and an SMA male connector (e.g. -1C). Model number will change to specify a different cable length or connector. Contact your sales representative for other connector options.

Specifications			
Frequency:		Cable:	Black RG-58, 1 ft (30 cm)
Europe	865-870 MHz	Case:	9" x 9" x 1.6"
US	902-928 MHz		(23 cm x 23 cm x 4 cm)
Gain:	8 dBic	VSWR:	1.5:1 typical
Polarization:			2:1 max over range
868 MHz systems	LHCP	Maximum Power:	20 Watts
915 MHz systems	RHCP	Case Material:	White UV Resistant ASA
Axial Ratio:	3 db Max	Connector:	SMA Male (Plug)
Beamwidth:		Mounting:	Pipe mounting; L-Bracket with U-Bolt
Elevation	70 degrees		Mounts up to 2.5" dia. (6.3 cm)
Azimuth	70 degrees	Operating Temp:	-40° to +85° C
Impedance:	50 Ohm		