

## Panel Antennas

### 8 dBi RFID



PN8 Series, 8 dBi gain

- Models for either US or EU applications
- 8 dBi gain is the maximum allowable gain for general RFID applications
- Vertical Tilt adjustment of up to 24-degrees
- Mid-range coverage, such as in a warehouse setting

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

Frequency bands vary 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 or long-range coverage, such as in a warehouse setting. The antenna offers 8 dBi 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 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 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.

#### Model Numbers

Model	Polarization	Frequency
PN8-915RCP-1C	RHCP	902-928 MHz
PN8-868LCP-1C	LHCP	865-870 MHz

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

#### Specifications

<b>Frequency:</b>		<b>Case:</b>	9" x 9" x 1.6" (23 cm x 23 cm x 4 cm)
Europe	865-870 MHz	<b>VSWR:</b>	2:1 max over range
US	902-928 MHz	<b>Maximum Power:</b>	20 Watts
<b>Gain:</b>	8 dBi	<b>Case Material:</b>	Grey UV Resistant ASA
<b>Polarization:</b>		<b>Connector:</b>	SMA Male (Plug)
868 MHz systems	LHCP	<b>Mounting:</b>	Pipe mounting; L-Bracket with U-Bolt
915 MHz systems	RHCP	<b>Operating Temp:</b>	-40° to +85° C
<b>Beamwidth:</b>			
Elevation	70 degrees		
Azimuth	70 degrees		
<b>Impedance:</b>	50 ohms		
<b>Cable:</b>	Black RG-58, 1 ft (183 cm)		