



## Panel Antennas, 7 dBic RFID & ISM, Forklift

- RF tuned for mounting directly against metal, perfect for forklift applications
- 7 dBic panel model for long range systems
- Optional mounting kit adapts antenna for metal settings such as forklifts, shelving, gates or racks

Mobile Mark's RFID Panel Antennas are perfect for RFID systems, as well as other applications in the ISM band. They are designed to operate in close proximity to metal, which normally has a tendency to detune antennas.

The PN7 Series antennas are available in circularly polarized (US models are RHCP; EU models are LHCP). With 7 dBic gain, these antennas provide significant performance improvements over a micro-sized patch.

They can be mounted in any setting including directly against metal. This is useful for a variety of applications, but particularly for mounting on forklifts.

Model series PN7 antennas are small 6.75" H x 6.75" W x 2" D (172 mm x 172mm x 50 mm) and attractive. The antennas are provided with 4 corner holes for mounting flush to a surface. An optional kit readily accommodates mounting to the load back rest of a forklift truck for palletized scanning.

The antenna is available in two styles, a direct N connector version, as well as a coaxial "Pigtail" version. The coax pigtail version is supplied with an SMA, other connectors can be

specified at time of order to match your application. Jumper cables can also be provided for either version to accommodate a variety of installations.

The PN7 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 PN7 antenna can be special ordered with this feature.

Model #	Description
PN7-915-BLK	US 902-928 MHz, integral N
PN7-915PT-1C-BLK-12	US 902-928 MHz, pigtail
PN7-868-BLK	EU 865 - 870 MHz, integral N
PN7-868PT-1C-BLK-12	EU 865 - 870 MHz, pigtail
FL-MK	Fork lift mounting kit optional
For special configurations, please contact your sales representative	

Specifications				
Frequency:	PN7-915 series PN7-868 series	902 - 928 MHz (US) 865 - 870 MHz (EU)	Radome Size:	6.75" H x 6.75" W x 2" D (172 mm x 172mm x 50 mm)
Gain:		7 dBic maximum	Antenna Radome:	Black ABS
Axial Ratio:		3 db Max	Termination:	"PT" Models "N" Models
VSWR:		1.5:1 max over range	Optional Mounting:	1 ft (30 cm) RG-58/SMA male Integral N female Model FL-MK mounting kit, allows PN7 mounting on forklift load backrest
Impedance:		50 Ohm nominal	Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G TIA 329.2-C
Maximum Power:		20 Watts	Water Ingress:	IPx7
Beamwidth:		70° elevation, 70° azimuth		
Front-to-Back ratio:		15 dB or better		
Operating Temp:		-40°C to +85°C		
Mounting:		4 Hole Corner Mount,		
Weight:		1.1 lbs (0.5 kg)		