

**Product datasheet**

# Circularly Polarised Directional Antenna

**Product code:** RFT-SCP-08-8690

**Version:** 02-.2008

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**RFTECHNICS.COM**
**Application:** UHF RFID mobile and fixed portal applications for rugged environments

- Allows better detection in the presence of multipath
- Captures signal returns from tags irrespective of tag orientation
- Maintains excellent RF performance across frequency band
- Rugged, weather proof construction
- Suitable for in-door or outdoor use
- Covers the ISM band (Europe)

**Technical specification**
**Electrical**

|                                  |                |
|----------------------------------|----------------|
| Frequency Band:                  | 860 - 900 MHz  |
| Gain:                            | 8 dBic         |
| Polarisation:                    | Circular       |
| 3 dB Beamwidth Horizontal Plane: | 65°            |
| 3 dB Beamwidth Vertical Plane:   | 65°            |
| Nominal Impedance:               | 50 Ohm         |
| VSWR:                            | 1.5:1.0 max.   |
| Maximum Input Power:             | 10 W           |
| Connector Type:                  | N-Type Female. |

|              |  |
|--------------|--|
| Application: | RFID fixed and mobile portals in rugged environments |
|--------------|--|

**Mechanical**

|                        |                         |
|------------------------|-------------------------|
| Appearance:            | Flat Panel              |
| Size (W x H x D):      | 300 mm x 300 mm x 50 mm |
| Weight::               | 0.7 Kg (1.5 lbs)        |
| Operating Temperature: | -30° C to + 60° C       |
| Wind Loading:          | 130 mph (210 km/h)      |

**Materials**

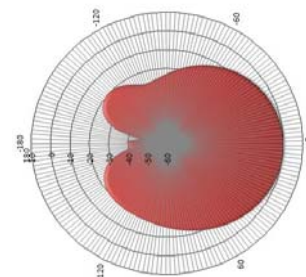
|                    |   |
|--------------------|---|
| Covering Material: | UV stabilised ABS Plastic   |
| Colour             | White   |
| Mounting Method    | Galvanised steel bracket set for mast or pole mounting 1.2 - 2.5 in (30 - 62 mm).<br>Comes complete with elevation tilt angle mechanism |



Front View of antenna showing coaxial cable and N-type Connector



Pole mount tilting bracket fitted to antenna



Horizontal Plane Cut

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