



Product overview

Advantenna-p14 is a compact RFID UHF antenna with circular polarization and a radiation pattern characterized by a 30° beam width in the direction of the antenna long edge and 90° in the direction of the antenna short edge. This radiation pattern makes this antenna ideal for many RFID applications such as:

- Loss prevention systems
- Portals, tunnels
- Corridors
- Doors

Benefits:

- Slightly narrow beam in the long edge
- Wide beam in the short edge
- High gain
- Very thin form factor
- Cost effective

Applications:

- Loss prevention systems
- Portals
- Doors and corridors
- Tunnels

Connector options



Flange straight

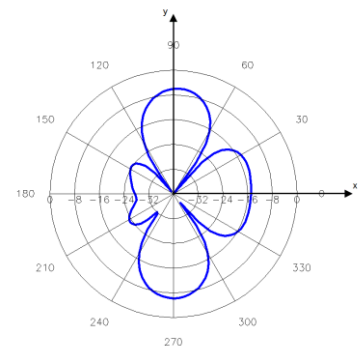
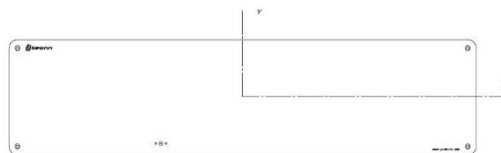
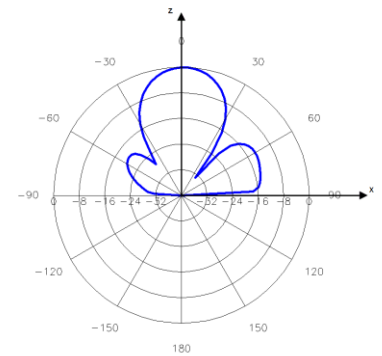
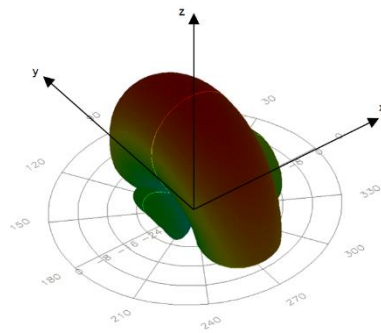


Flange right angle



Edge mount

Antenna radiation pattern





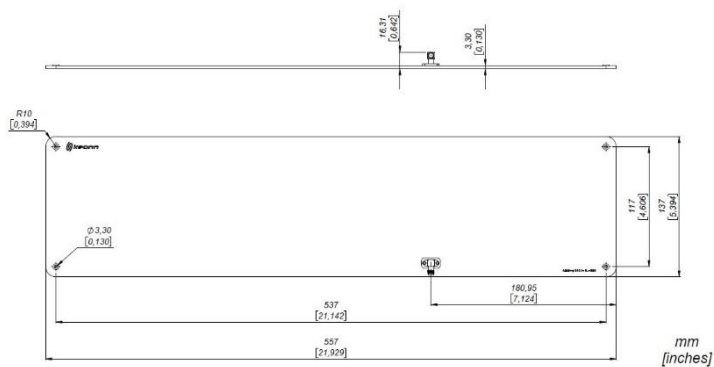
Specifications

| | |
|----------------------------------|--|
| Operating Frequency EU Version | 865 - 868 MHz (ETSI EN 302 208) |
| Operating Frequency US Version | 902 - 928 MHz (FCC part 15) |
| Operating Detection distance | Up to 4.5 m |
| Radiation pattern | Fan beam |
| Gain | 8.0 dBi (EU version), 8.1 dBi (US version) |
| Beam width | 30° / 90° |
| Sidelobe level | < -15 dB |
| Polarization | Circular - RHCP (Right Hand Circular Polarization) |
| Input Impedance | 50 Ω |
| Connector | SMA or MCX Flange, flange right angle, or edge mount In case of edge mount can be mounted on the long side or on the short side of the antenna |
| IP rating | IP65, IP68 Dust resistant, even in high concentration Resistant to normal water jets for at least 3 minutes Immersion resistant (up to 1m for up to 30 minutes) |
| Temperature range | -20°C to +80°C |
| Size excluding connector | 557 mm x 137 mm x 3.3 mm 21.9 inches x 5.4 inches x 0.13 inches |
| Size with edge mount connector | 557 mm x 137 mm x 8.7 mm 21.9 inches x 5.4 inches x 0.3 inches |
| Size with flange mount connector | 557 mm x 137 mm x 16 mm 21.9 inches x 5.4 inches x 0.6 inches |
| Antenna weight | 460 g |

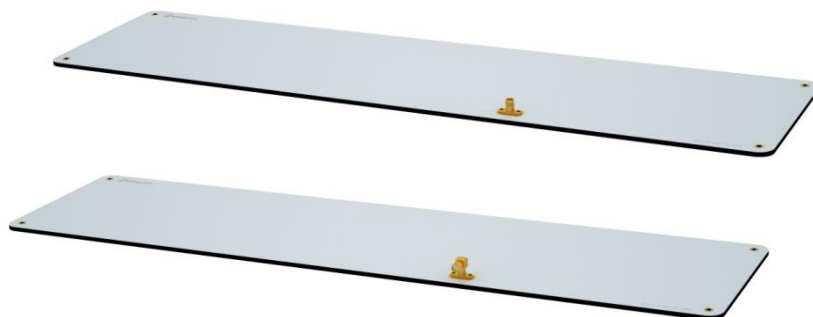


Mechanical specifications

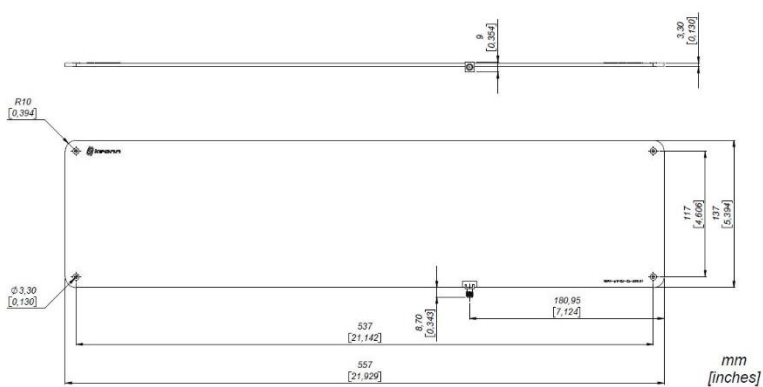
With flange straight or flange right angle connector



View from the non-radiating side



With edge mount connector



View from the non-radiating side





Product codes for ordering

| ADAN-p14 | FF | - | CS | COR | CT | - | mmm | |
|----------|----|---|----|-----|-----|---|-----|--|
| | | | | | | | | FF = frequency band |
| | EU | | | | | | | 865,6 MHz - 867,6 MHz |
| | US | | | | | | | 902,0 MHz - 928,0 MHz |
| | | | | | | | | Connector shape |
| | | | EL | | | | | Edge mount, at the long side of the antenna |
| | | | FL | | | | | Flange straight |
| | | | FR | | | | | Flange right angle |
| | | | | | | | | Connector orientation (only for right angle SMA connector) |
| | | | | | | | | Default orientation |
| | | | | | 90 | | | Rotated 90° counterclockwise |
| | | | | | 180 | | | Rotated 180° counterclockwise |
| | | | | | 270 | | | Rotated 270° counterclockwise |
| | | | | | | | | Connector type |
| | | | | | SMA | | | SMA connector |
| | | | | | MCX | | | MCX connector (only available in edge mount and flange straight) |
| | | | | | | | | Model |
| | | | | | | | 200 | Model number |

Examples:

- **ADAN-p14EU-ELSMA-200:**
 - Advantenna-p14
 - Frequency band : 865,6 MHz - 867,6 MHz
 - **Edge mount** connector, placed at the long side of the antenna
 - **SMA** connector
 - Model **200**
- **ADAN-p14US-FRSMA-200:**
 - Advantenna-p14
 - Frequency band : 902,0 MHz - 928,0 MHz
 - **Flange right angle** connector
 - Default connector orientation
 - **SMA** connector
 - Model **200**
- **ADAN-p14EU-FR270SMA-200:**
 - Advantenna-p14
 - Frequency band : 865,6 MHz - 867,6 MHz
 - **Flange right angle** connector
 - Connector rotated 270° counterclockwise
 - **SMA** connector
 - Model **200**