

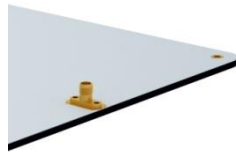


Product overview

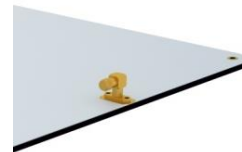
Advantenna-p22 is a compact RFID UHF Antenna with circular polarization and a radiation pattern characterized by a 60°/60° beamwidth.

This radiation pattern makes this antenna ideal for many RFID applications such as real-time inventory systems, magic mirrors and tracking through doors and corridors.

Connector options



Flange straight



Flange right angle



Edge mount

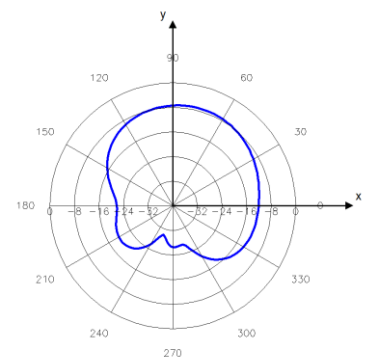
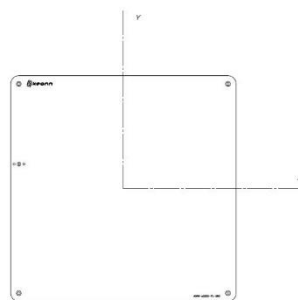
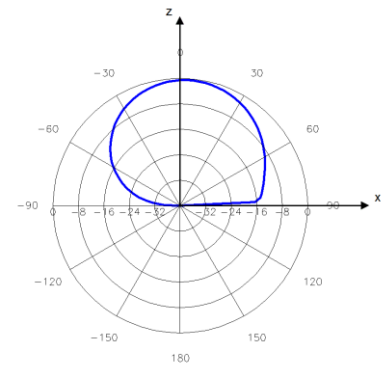
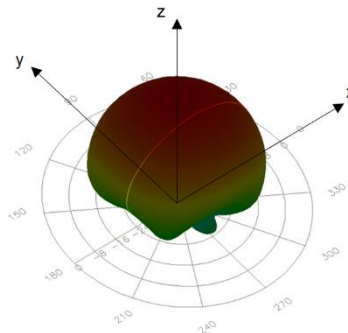
Benefits:

- 60° beamwidth in two directions
- High gain
- Very thin form factor

Applications:

- POS systems
- Real-time inventory systems
- Magic mirrors
- Doors and corridors

Antenna radiation pattern





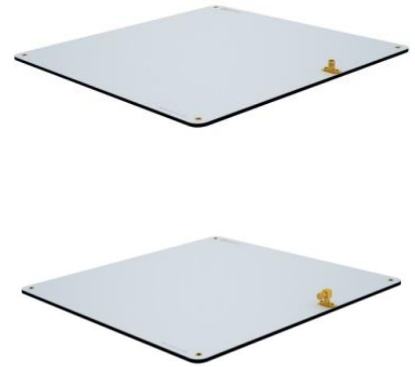
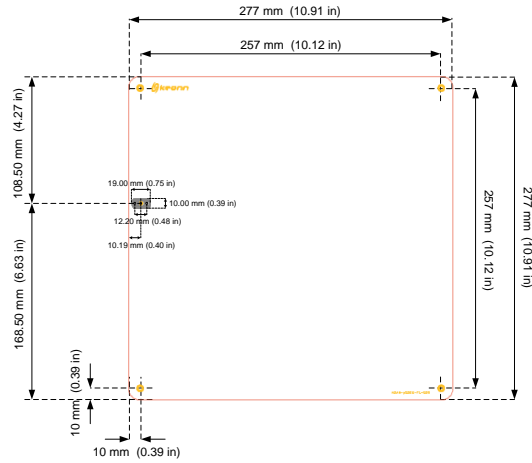
Specifications

| | |
|--------------------------------|--|
| 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 4.3 metres |
| Radiation pattern | Pencil beam |
| Beamwidth | 60° / 60° |
| Gain | 7.5 dBi (EU version), 8.0 dBi (US version) |
| Sidelobe level | < -15 dB |
| Polarization | Circular – RHCP (Right Hand Circular Polarization) |
| Input Impedance | 50 Ω |
| Connector | SMA or MCX Flange straight, flange right angle or edge mount |
| 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 | 277 mm x 277 mm x 3.3 mm 10.9 inches x 10.9 inches x 0.13 inches |
| Size with flange connector | 277 mm x 277 mm x 15 mm 10.9 inches x 10.9 inches x 0.6 inches |
| Size with edge mount connector | 277 mm x 277 mm x 8 mm 10.9 inches x 10.9 inches x 0.3 inches |
| Antenna weight | 470 g |



Mechanical specifications

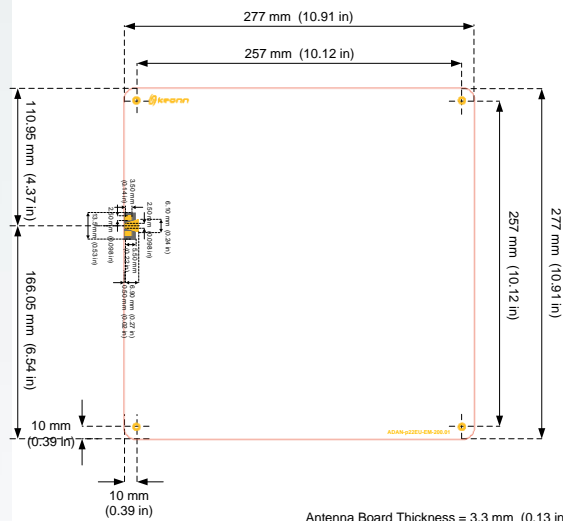
With flange straight or flange right angle connector



Holes $\varnothing = 3.3 \text{ mm}$ (0.13 in)

View from the side that radiates

With edge mount connector*



Antenna Board Thickness = 3.3 mm (0.13 in)

Holes $\varnothing = 3.3 \text{ mm}$ (0.13 in)

View from the side that radiates



Product codes for ordering

| ADAN-p22 | FF | - | CS | COR | CT | - | mmm | |
|----------|----|---|----|-----|-----|---|-----|--|
| | | | | | | | | FF = frequency band |
| | EU | | | | | | | 865,6 MHz - 867,6 MHz |
| | US | | | | | | | 902,0 MHz - 928,0 Mhz |
| | | | | | | | | Connector shape |
| | | | 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 flange straight) |
| | | | | | | | | Model |
| | | | | | | | 200 | Model number |

Examples:

- **ADAN-p22EU-FLSMA-200:**
 - Advantenna-p22
 - Frequency band : 865,6 MHz - 867,6 MHz
 - **Flange straight** connector
 - **SMA** connector
 - Model **200**
- **ADAN-p22US-FRSMA-200:**
 - Advantenna-p22
 - Frequency band : 902,0 MHz - 928,0 Mhz
 - **Flange right angle** connector
 - Default connector orientation
 - **SMA** connector
 - Model **200**
- **ADAN-p22EU-FR270SMA-200:**
 - Advantenna-p22
 - Frequency band : 865,6 MHz - 867,6 MHz
 - **Flange right angle** connector
 - Connector rotated 270° counterclockwise
 - **SMA** connector
 - Model **200**