



keonn

Modular RFID
Components

Advantenna-SP11 TM

High gain compact
RFID UHF antenna





Benefits:

- High gain
- Very thin form factor (compared to other high gain antennas available in the market)
- Very light weight
- Cost effective

Applications:

- RFID portals
- RFID tunnels
- Smart shelves
- Smart panels
- Smart tables
- Smart surfaces in general

Product overview

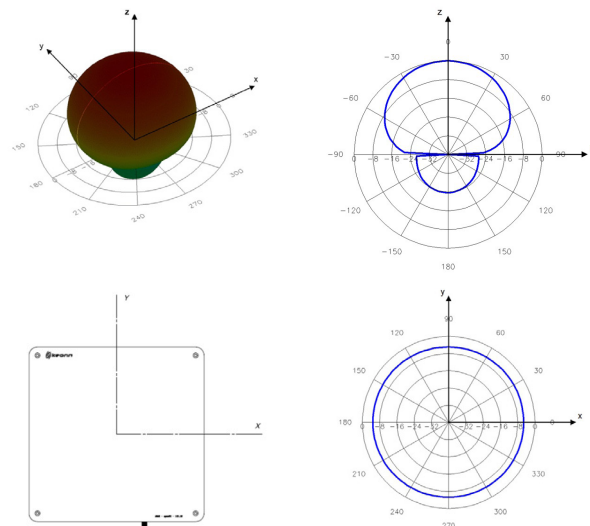
Advantenna-SP11 is a compact RFID UHF Antenna with a very high gain, circular polarization and a radiation pattern characterized by a wide beam in all directions in one hemisphere.

The combination of a high gain, thin form factor and compact size (compared to other high gain antennas available on the market) make this antenna ideal for many RFID applications such as RFID portals, RFID tunnels, smart shelves, smart displays, smart panels and smart tables or other surfaces.

Technical specifications

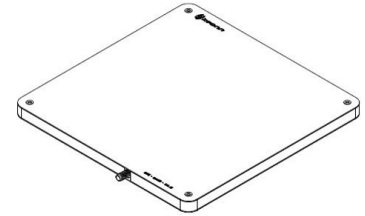
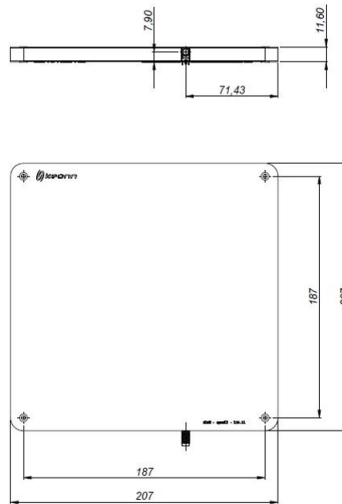
| | |
|--------------------------------|--|
| Operating Frequency EU Version | 865 - 868 MHz (ETSI EN 302 208) |
| Operating Frequency US Version | 902 - 928 MHz (FCC part 15) |
| Operating Detection distance | Up to 10 metres |
| Radiation pattern | Wide beam in both directions in one hemisphere |
| Beam width | 70° / 70° |
| Polarization | Circular |
| Input Impedance | 50 Ω |
| Connector | PCB mount right angle SMA Beneath or inside the layers of antenna |
| Size excluding connector | 207 mm x 207 mm x 11.6 mm 8.15 inches x 8.15 inches x 0.45 inches |
| Antenna weight | 195 g |

Radiation pattern



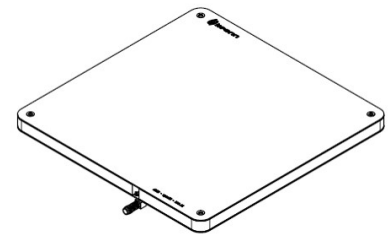
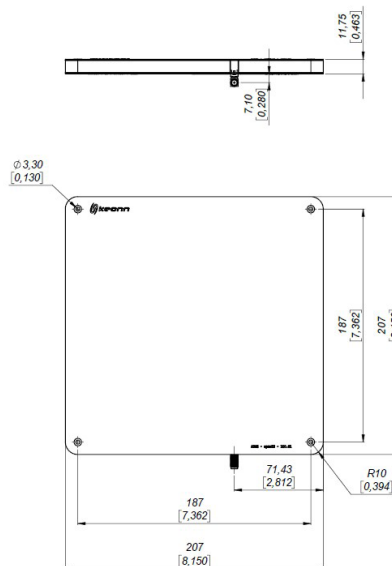
Mechanical specifications:

Connector between the layers of the antenna



Mechanical specifications:

right angle connector over the non-radiating side of the antenna



Units in millimeters
[Units in inches]

Product codes for ordering

| ADAN-SP11 | FF | - | CS | CT | - | N | mmm | |
|-----------|----|---|-----|-----|---|---|-----|--|
| | | | | | | | | FF = frequency band |
| | EU | | | | | | | 865,6 MHz - 867,6 MHz |
| | US | | | | | | | 902,0 MHz - 928,0 MHz |
| | | | | | | | | Connector shape |
| | | | PRM | | | | | Edge mount connector between the layers of the antenna |
| | | | PRO | | | | | Right angle connector over the non-radiating side of the antenna |
| | | | | | | | | Connector type |
| | | | | SMA | | | | SMA connector |
| | | | | | | | | Number of antennas in one board |
| | | | | | | 1 | | Number of antennas |
| | | | | | | | | Model |
| | | | | | | | 100 | Model number |

Examples:

ADAN-SP11EU-PRMSMA-1-100:

- Advantenna-**SP11**
- European frequency band, 865,6 MHz - 867,6 MHz
- **Edge mount connector** (inside the layers of the antenna)
- **One** single antenna
- Model **100**



Copyright © Keonn Technologies S.L.
All rights reserved.

Information in this publication
supersedes all earlier versions.
Specifications subject to change
without notice.

