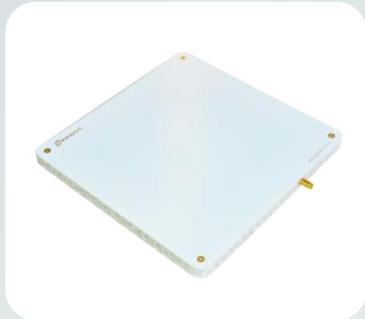


Advantenna-SP11™

High gain compact RFID UHF antenna



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.

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 m
Radiation pattern	Wide beam in both directions in one hemisphere
Gain	8.3 dBi (5.3 dBiL) EU version
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

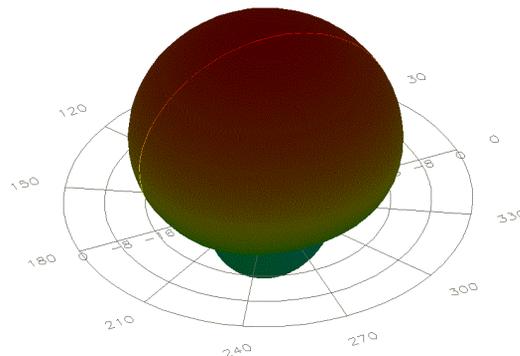
Benefits:

- 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

Radiation pattern

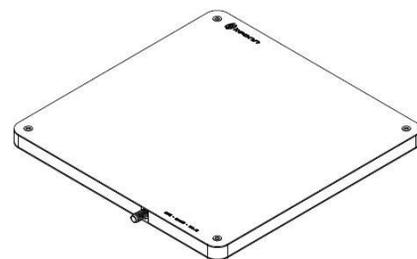
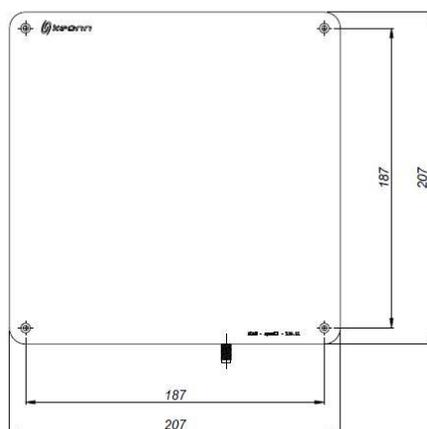
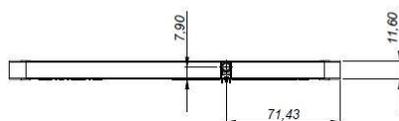


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Mechanical specifications



Units in millimeters

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						PCB mount right angle SMA connector inside the layers of the antenna
			PRO						PCB mount right angle SMA connector beneath the antenna
									Connector type
				SMA					SMA connector
									Number of antennas in one board
						1			Number of antennas
									Model
								100	Model number

Example:

- **ADAN-SP11EU-PRMSMA-1-100:**
 - Advantenna-**SP11**
 - European frequency band, 865,6 MHz - 867,6 MHz
 - **PCB mount right angle SMA connector** inside the layers of the antenna
 - **One** single antenna
 - Model **100**