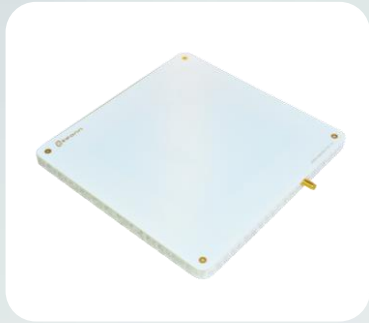


# Advantenna-SP11™

## High gain compact RFID UHF antenna



**Microtron**  
Flexible electronic solutions



### 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

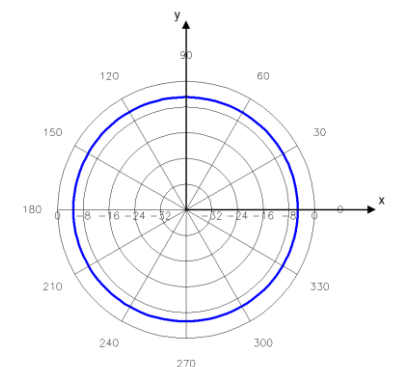
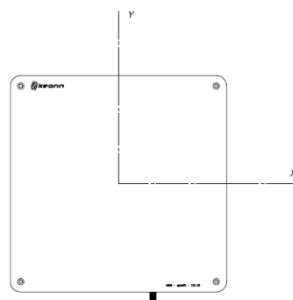
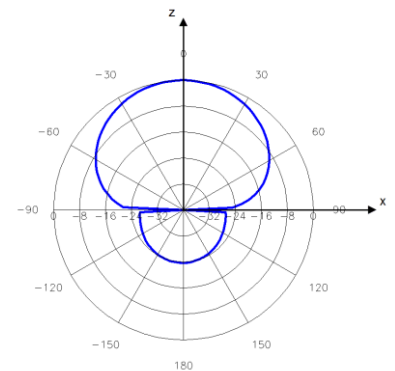
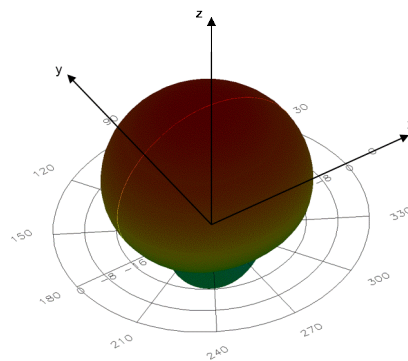
### Benefits:

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

### Applications:

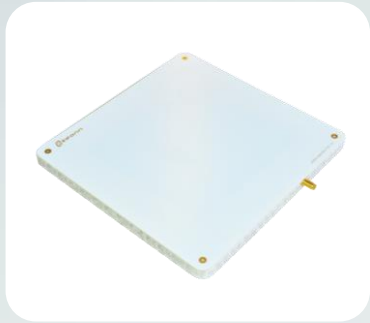
- RFID portals
- RFID tunnels
- Smart shelves
- Smart panels
- Smart tables
- Smart surfaces in general

### Radiation pattern

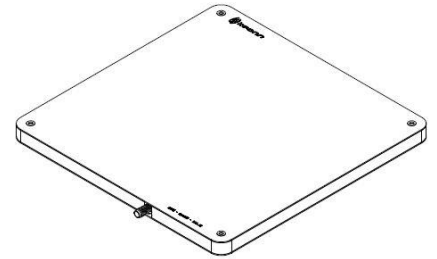
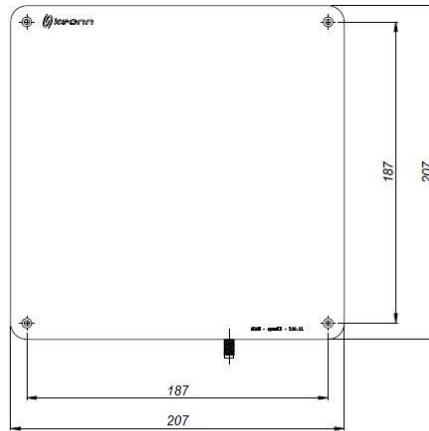
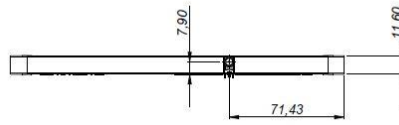


# Advantenna-SP11™

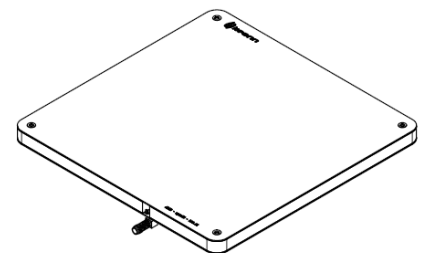
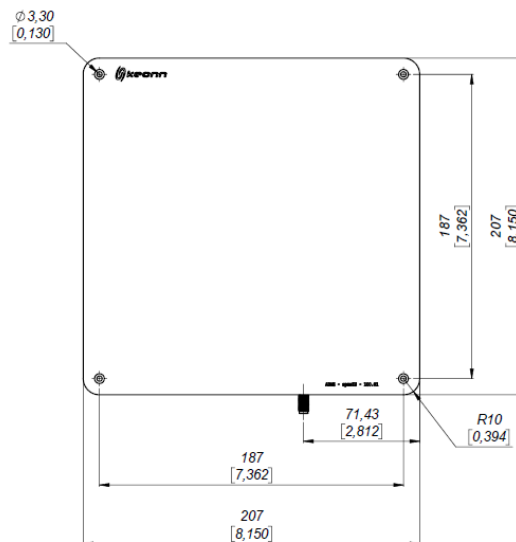
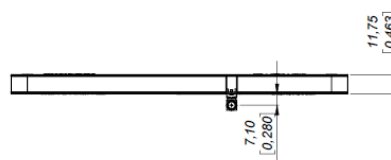
## High gain compact RFID UHF antenna



**Mechanical specifications:** Connector between the layers of the antenna



**Mechanical specifications:** right angle connector over the non-radiating side of the antenna



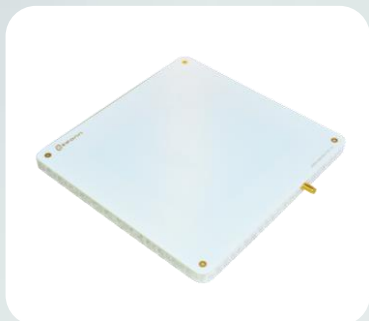
Units in millimeters  
[Units in inches]

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# Advantenna-SP11™

## High gain compact RFID UHF antenna



### Product codes for ordering

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

Example:

- **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**

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