

RFID UHF high gain pencil beam antenna





RFID UHF high gain pencil beam antenna





Benefits:

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

Applications:

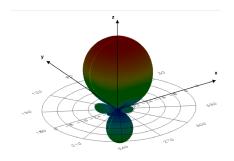
- Fitting rooms
- Vehicle tracking
- People tracking

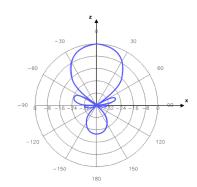
Product overview

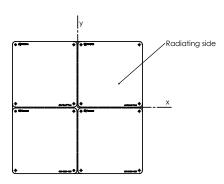
Advantenna-SP22 is an ultra-light RFID UHF Antenna with a very high gain, circular polarization and a radiation pattern characterized by a 40° beam width in one plane and a 40° beam in the other plane.

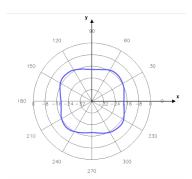
The combination of a high gain, thin form factor and ultra-light design make this antenna ideal for many RFID applications such as fitting rooms, vehicle tracking, people tracking, etc.

Radiation pattern











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Operating Frequency ETSI Version	865 - 868 MHz (ETSI EN 302 208)				
Operating Frequency FCC Version	902 - 928 MHz (FCC part 15)				
Antenna Technology	Patch				
Radiation pattern	Pencil beam				
Gain	EU version 11.1 dBic (Max), 10.9 dBiC (Typical) 8.2 dBiL* US version 11.5 dBic (Max), 11.4 dBiC (Typical) 8.5 dBiL*				
VSWR	< 1.5:1 (Typical)				
Beam width (AZ / EL)	40° / 40°				
Front-to-Back Ratio	< -15 dB				
Sidelobe level	<-20 dB				
Polarization	Circular				
Axial Ratio	EU version* At Boresight 0.2 dB At 3dB Beamwidth 0.1 (Typical), 0.3 (Max) US version* At Boresight 0.1 dB At 3dB Beamwidth 0.1 (Typical), 0.4 (Max)				
Input Impedance	50 Ω				
Connector	SMA Exterior straigth				
Regulation	ROHS - EU Directive 2015/863 WEEE - EU Directive 2012/19/EU REACH - EC No 1907/2006 ETSI EN 302 208				
IP rating	IP60				
Temperature range	-20°C to +60°C				

^{*}Measured at the center of the band

Mechanical specifications

Without enclosure

Size excluding connector	417 mm x 417 mm x 11.7 mm 16.4 inches x 16.4 inches x 0.5 inches
Antenna weight	780 gr 27,51 oz



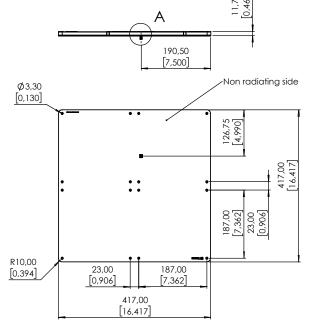
RFID UHF high gain pencil beam antenna

Mechanical specifications:

Straight connector over the non-radiating side of the antenna (EU version)









Units in millimeters [Units in inches]

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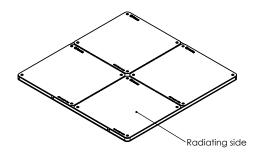


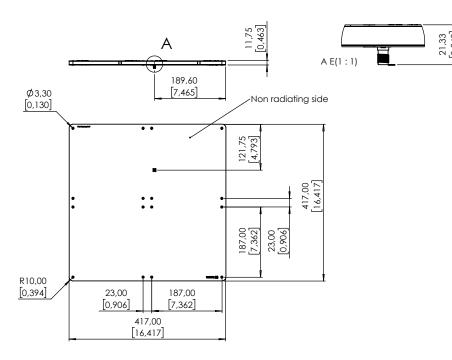
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Mechanical specifications:

Straight connector over the non-radiating side of the antenna (US version)







Units in millimeters [Units in inches]



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Product codes for ordering

ADAN-SP22	FF	-	СР	СТ	-	mmm	
							FF = frequency band
	EU						865,6 MHz - 867,6 MHz
	US						902,0 MHz - 928,0 MHz
							Connector position
			PSO				Straight connector
							Connector type
				SMA			SMA connector
							Model
						100	Model number

Examples:

ADAN-SP22EU-PSOSMA-100.01:

- Advantenna-SP22
- ETSI frequency band, 865,6 MHz 867,6 MHz
- Straight connector
- Model 100

ADAN-SP22US-PSOSMA-100.01:

- Advantenna-SP22
- FCC frequency band, 902,0 MHz 928,0 Mhz
- Straight connector
- Model 100



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