





Barcelona London Los Angeles





### **Benefits:**

- Slightly narrow beam in the long edge
- Wide beam in the short edge
- High gain
- Very thin form factor
- Cost effective

### **Applications:**

- Loss prevention systems
- Portals
- Doors and corridors
- Tunnels

### **Product overview**

Advantenna-p13 is a compact RFID UHF 3 elements patch antenna with circular polarization and a radiation pattern characterized by a 40° beam width in the direction of the antenna long edge and 90° in the direction of the antenna short edge. This radiation pattern makes this antenna ideal for many RFID applications such as:

- Loss prevention systems
- Portals, tunnels
- Corridors
- Doors

Holder available specially designed for this model of antenna: AdvanHolder-p13

### **Connector options**



Flange straight

Flange right angle

Edge mount

### Flange right angle connector with rotation

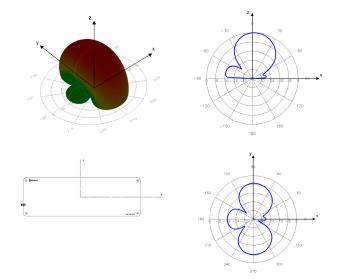
# Default 90 degrees





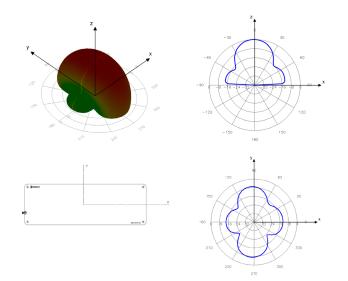
Antenna radiation pattern for 865,6 MHz - 867,6 MHz frequency band:





\*Front-to-back ratio not drawn

# Antenna radiation pattern for 902 - 928 MHz frequency band:



\*Front-to-back ratio not drawn



### **Technical specifications**



Operating Frequency EU Version	865 - 868 MHz (ETSI EN 302 208)				
Operating Frequency US Version	902 - 928 MHz (FCC part 15)				
Antenna Technology	Patch				
Radiation pattern	Fan beam				
Gain	EU version 6.9 dBiC (Typical), 7.2 dBiC (Max) 5.0 dBiL* US version 6.8 dBiC (Typical), 7.2 dBiC (Max) 5.1 dBiL*				
VSWR	< 1.5:1 (Typical)				
Beam width (AZ / EL)	40° / 90°				
Sidelobe level	< -15 dB				
Front-to-Back Ratio	<-20 dB				
Polarization	Circular LHCP (Left Hand Circular Polarization) – Models with Flange and Edge mount connector on the long side RHCP (Right Hand Circular Polarization) – Models with Edge mount connector on the short side				
Axial Ratio	EU version* At Boresight 0.2 dB At 3dB Beamwidth 1.1 dB (Typical), 3.2 dB (Max) US version* At Boresight 0.6 dB At 3dB Beamwidth 0.5 dB (Typical), 3.6 dB (Max)				
Input Impedance	50 Ω				
Connector	SMA or MCX Flange, flange right angle, or edge mount In case of edge mount can be mounted on the long side or on the short side of the antenna				
Regulation	ROHS - EU Directive 2015/863 WEEE - EU Directive 2012/19/EU REACH - EC No 1907/2006 ETSI EN 302 208				
IP rating	Indoor antenna IP62**				
Temperature range	-20°C to +80°C				
Size excluding connector	417 mm x 137 mm x 3.3 mm 16.3 inches x 5.4 inches x 0.13 inches				
Size with edge mount connector	417 mm x 137 mm x 8 mm 16.3 inches x 5.4 inches x 0.3 inches				
Size with flange mount connector	417 mm x 137 mm x 15 mm 16.3 inches x 5.4 inches x 0.6 inches				
Antenna weight	350 g				

\*Measured at the center of the band

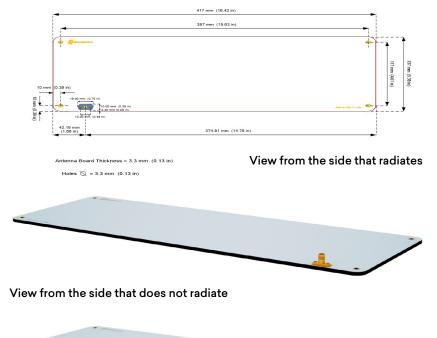
<sup>\*\*</sup> IP rating in this case indicates the conditions that the antenna can withstand at specific times and, afterwards, continue working normally, they are not conditions under which it can work permanently.



### **Mechanical specifications**

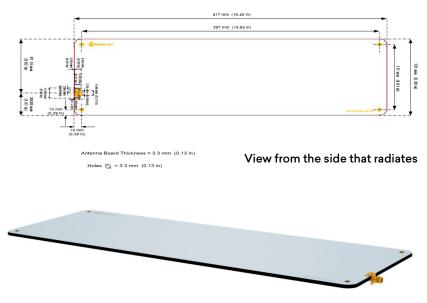
### With flange straight or flange right angle connector







### With edge mount connector in the short side



View from the side that does not radiate



### **Product codes for ordering**

ADAN-p13	FF	-	cs	COR	ст	-	mmm	
								FF = frequency band
	EU							865,6 MHz - 867,6 MHz
	US							902,0 MHz - 928,0 MHz
								Connector shape
			ES					Edge mount, at the short side of the antenna
			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 edge mount and flange straight)
								Model
							200	Model number

### Examples:

### ADAN-p13EU-ESSMA-200:

- Advantenna-p13
- Frequency band : 865,6 MHz 867,6 MHz
- Edge mount connector, placed at the
- short side of the antenna
- SMA connector
- Model 200

### ADAN-p13US-FRSMA-200:

- Advantenna-**p13**
- Frequency band : 902,0 MHz 928,0 Mhz
- Flange right angle connector
- · Default connector orientation
- SMA connector
- Model 200

### ADAN-p13EU-FR270SMA-200:

- Advantenna-p13
- Frequency band : 865,6 MHz 867,6 MHz
- Flange right angle connector
- Connector rotated 2700
  counterclockwise
- SMA connector
- Model 200

### Disposal of the product

Do not dispose the product in municipal or household waste. Please check your local regulations for disposal/ recycle of electronic products.



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