





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 Image: state state

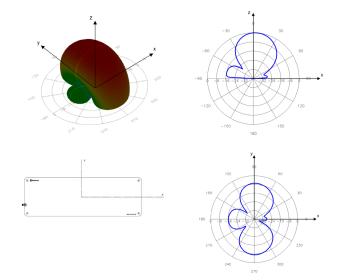


2/0 degrees



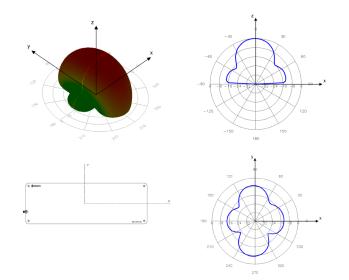
Antenna radiation pattern for 865,6 MHz - 867,6 MHz frequency band:





*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	< 1.4:1				
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				
	ETSTEN 302 208				
IP rating	ETSTEN 302 208 Indoor antenna IP68**				
IP rating Temperature range	Indoor antenna				
	Indoor antenna IP68**				
Temperature range	Indoor antenna IP68** -20°C to +80°C 417 mm x 137 mm x 3.3 mm				
Temperature range Size excluding connector	Indoor antenna IP68** -20°C to +80°C 417 mm x 137 mm x 3.3 mm 16.3 inches x 5.4 inches x 0.13 inches 417 mm x 137 mm x 8 mm				
Temperature range Size excluding connector Size with edge mount connector Size with flange mount	Indoor antenna IP68** -20°C to +80°C 417 mm x 137 mm x 3.3 mm 16.3 inches x 5.4 inches x 0.13 inches 417 mm x 137 mm x 8 mm 16.3 inches x 5.4 inches x 0.3 inches 417 mm x 137 mm x 15 mm				

*Measured at the center of the band

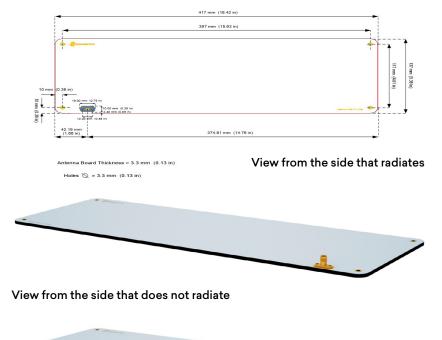
^{**} IP rating in this case indicates the conditions that the antenna can withstand at specific times and, afterwards, continue working normally, they are not conditions under which it can work permanently.



Mechanical specifications

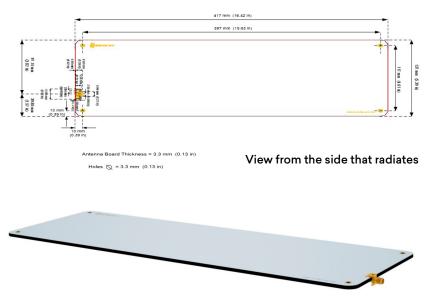
With flange straight or flange right angle connector







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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