





Barcelona Tel: +34 931 814 477 London Los Angeles





Benefits:

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

Applications:

- Electronic Article Surveillance
 pedestals, that combine acousto magnetic and RFID technologies
- Point of Sales systems

Product overview

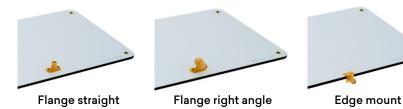
Advantenna-p12 is a compact RFID UHF 2 elements patch antenna with circular polarization and a radiation pattern characterized by a 60° beam width in the direction of the antenna long edge and 90° in the direction of the antenna short edge.

Advantenna-p12 has a very thin form factor. This allows to integrate the antenna inside thin objects.

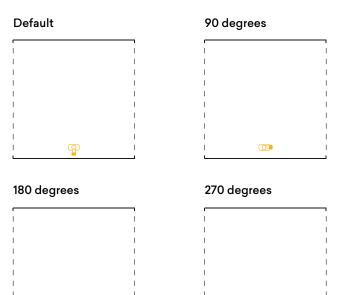
Advantenna-p12 is ideal for loss-prevention systems at retail stores. Advantenna-p12 can be embedded inside pedestals of electronic article surveillance (EAS) based on acousto-magnetic technology, transforming such pedestals into hybrid systems that include two technologies simultaneously: acousto-magnetic and RFID.

Holder available specially designed for this model of antenna: AdvanHolder-p12

Connector options







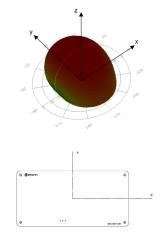
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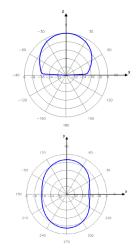
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Antenna radiation pattern







*Front-to-back ratio not drawn

Technical specifications

Qersting Frequency US9/2 - 9/28 MHz (FCC part 15)Antenna TachnologyPathRadiation patternVide beam in both directions in one hemisphereRadiation patternU Varsion st didic (Typical), 55 dBiC (Max), s2 dBiL' dBiC (Max) s2 dBiL'GainU varsion s4 dBiC (Typical), 55 dBiC (Max), s2 dBiL'Form< 151 (Typical), 55 dBiC (Max) s2 dBiL'Polarization< 151 (Typical), 55 dBiC (Max) s2 dBiL'Polarization< 151 (Typical), 56 dBiC (Max) s2 dBiL'Avail Ratio< 20 dBArationEl version' storesight 0.9 dB x3 dB Beamwidth 0.6 dB (Typical), 47 (Max) S2 dBiL'Avail RatioS0 0Iput ImpedanceS0 0ConnectorRange flange right angle, or edge mount (on the long side of the antenna) x13 dB Beamwidth 1.6 (Typical), 3.4 (Max)RegulationMA or MCX sange flange right angle, or edge mount (on the long side of the antenna) x13 dB Beamwidth 1.6 (Typical), 3.4 (Max)FornetorS0 0PratingMA or MCX sange flange right angle, or edge mount (on the long side of the antenna) x13 dB Beamwidth 1.6 (Typical), 3.4 (Max)FornetorS0 0PratingIndoor antenna science x0.5 (Max) science x0.5 (Max) science x0.5 (Max) science x0.5 (Max) science x0.5 (Max)Foreigner20 Cot 640°CForeigner20 Cot 640°CSize with edge mount science x0.5 (Inches x0.5 (Inches x0.5) (Inches)Size with edge mount science x0.5 (Inches x0.5) (Inches)Size with flange connectorX7 mm x137 mm x15 mm Sinches x0.5 (Inches)<	Operating Frequency EU Version	865 - 868 MHz (ETSI EN 302 208)			
Radiation patternWide beam in both directions in one hemisphereRadiation patternWide beam in both directions in one hemisphereGainEU version 54 dBiC (Typical), 55 dBiC (Max) 32 dBiL 32 dBiLVSWR<151 (Typical), 58 dBiC (Max) 		902 - 928 MHz (FCC part 15)			
GainLV version \$2 dBil."GainS2 dBil."VSWR<151 (Typical), 55 dBiC (Max), 35 dBiC (Max) 35 dBiC (Max) 35 dBiC (Max)Peam width (AZ / EL)60° / 90°Front-to-Back Ratio<-20 dB	Antenna Technology	Patch			
GeinSå dBiC (Typical), S5 dBiC (Max), Så dBiC (Max), Så dBiC (Max)VSWR<	Radiation pattern	Wide beam in both directions in one hemisphere			
Beam width (AZ / EL)60° / 90°Front-to-Back Ratio<-20 dB	Gain	5.4 dBiC (Typical), 5.5 dBiC (Max), 3.2 dBiL* US version 5.6 dBiC (Typical), 5.8 dBiC (Max)			
Front-to-Back Ratio<-20 dBPolarizationCircular - LHCP (Left Hand Circular Polarization)Avial RatioLiversion* At Boressight 0.9 dB At 3dB Beamwidth 0.6 dB (Typical), 4.7 (Max) US version* At Boressight 1.3 dB At 3dB Beamwidth 1.6 (Typical), 3.4 (Max)Input Impedance50 ΩConnectorSMA or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)RegulationNMS or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)IP ratingIndoor antenna PoS***Temperature range-20°C to +80°CSize excluding connector277 mm x 137 mm x 33 mm 10.8 inches x 5.4 inches x 0.3 inchesSize with edge mount 	VSWR	< 1.5:1 (Typical)			
PolarizationCircular - LHCP (Left Hand Circular Polarization)PolarizationAt Bores ight 0.9 dB At Bores ight 0.9 dB At Bores ight 0.9 dB At 3dB Beamwidth 0.6 dB (Typical), 4.7 (Max) Sversion* At Bores ight 1.3 dB At 3dB Beamwidth 1.6 (Typical), 3.4 (Max)Input Impedance50 ΩConnectorSMA or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)RegulationSO ΩInput ImpedanceSO ΩConnectorSMA or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)RegulationSO ΩInput ImpedanceSO ΩInput ImpedanceSO ΩConnectorSMA or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)Input ImpedanceSO ΩInput ImpedanceSO ΩInput ImpedanceSO ΩInput ImpedanceSO ΩImpediationSO Ω<	Beam width (AZ / EL)	60° / 90°			
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Axial RatioK Boresight 0.9 dB At 3dB Beamwidth 0.6 dB (Typical), 4.7 (Max) M Soresight 13 dB At 3dB Beamwidth 1.6 (Typical), 3.4 (Max)Input Impedance50 ΩConnectorMA or MCX Plange, flange right angle, or edge mount (on the long side of the antenna)RegulationSOHS - EU Directive 2012/19/EU REGCH EC No 1907/2006IP ratingIndoor antenna PlanerTomperature range- 20°C to +80°CSize excluding connectorIndoor antenna 100 (Si inches x 5.4 inches x 0.3 inches)Size with edge mount connector20°C to +80°CSize with flange connectorInter size size size size size size size size	Polarization	Circular - LHCP (Left Hand Circular Polarization)			
NoteConnectorSMA or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)RegulationSMA or MCX Flange, flange right angle, or edge mount (on the long side of the antenna)NP ratingNCHS - EU Directive 2015/863 WEEE - EU Directive 2012/19/EU REACH - EC No 1907/2006 ETSI EN 302 208IP ratingIndoor antenna IP68**Temperature range-20°C to +80°CSize excluding connector277 mm x 137 mm x 3.3 mm 10.8 inches x 5.4 inches x 0.13 inchesSize with edge mount connector277 mm x 137 mm x 8 mm 10.8 inches x 5.4 inches x 0.3 inchesSize with flange connector277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	Axial Ratio	At Boresight 0.9 dB At 3dB Beamwidth 0.6 dB (Typical), 4.7 (Max) US version* At Boresight 1.3 dB			
ConnectorFlange, flange right angle, or edge mount (on the long side of the antenna)RegulationROHS - EU Directive 2015/863 WEEE - EU Directive 2012/19/EU REACH - EC No 1907/2006 ETSI EN 302 208IP ratingIndoor antenna IP68**Temperature range-20°C to +80°CSize excluding connector277 mm x 137 mm x 3.3 mm 10.8 inches x 5.4 inches x 0.13 inchesSize with edge mount connector277 mm x 137 mm x 5.5 mm 10.8 inches x 5.4 inches x 0.6 inchesSize with flange connector277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	Input Impedance	50 Ω			
RegulationWEEE - EU Directive 2012/19/EU REACH - EC No 1907/2006 ETSI EN 302 208IP ratingIndoor antenna IP68**Temperature range-20°C to +80°CSize excluding connector277 mm x 137 mm x 3.3 mm 10.8 inches x 5.4 inches x 0.13 inchesSize with edge mount connector277 mm x 137 mm x 8 mm 10.8 inches x 5.4 inches x 0.3 inchesSize with flange connector277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	Connector				
IP rating IP68** Temperature range -20°C to +80°C Size excluding connector 277 mm x 137 mm x 3.3 mm 10.8 inches x 5.4 inches x 0.13 inches Size with edge mount connector 277 mm x 137 mm x 8 mm 10.8 inches x 5.4 inches x 0.3 inches Size with flange connector 277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	Regulation	WEEE - EU Directive 2012/19/EU REACH - EC No 1907/2006			
Size excluding connector 277 mm x 137 mm x 3.3 mm 10.8 inches x 5.4 inches x 0.13 inches Size with edge mount connector 277 mm x 137 mm x 8 mm 10.8 inches x 5.4 inches x 0.3 inches Size with flange connector 277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	IP rating				
Size excluding connector 10.8 inches x 5.4 inches x 0.13 inches Size with edge mount connector 277 mm x 137 mm x 8 mm 10.8 inches x 5.4 inches x 0.3 inches Size with flange connector 277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	Temperature range	-20°C to +80°C			
connector 10.8 inches x 5.4 inches x 0.3 inches Size with flange connector 277 mm x 137 mm x 15 mm 10.8 inches x 5.4 inches x 0.6 inches	Size excluding connector				
Size with flange connector 10.8 inches x 5.4 inches x 0.6 inches	-				
Antenna weight 230 g	Size with flange connector				
	Antenna weight	230 g			

*Measured at the center of the band

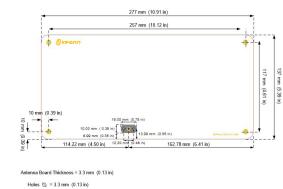
** IP rating in this case indicates the conditions that the antenna can withstand at specific times and, afterwards, continue working normally, they are not conditions under which it can work permanently.

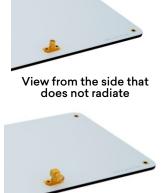


Mechanical specifications

With flange straight or flange right angle connector



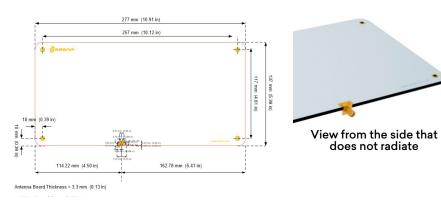




View from the side that does not radiate

With edge mount connector

View from the side that radiates



View from the side that radiates



Product codes for ordering

ADAN-p12	FF	-	CS	COR	ст	-	mmm	
								FF = frequency band
	EU							865,6 MHz - 867,6 MHz
	US							902,0 MHz - 928,0 MHz
								Connector shape
			EL					Edge mount at the long 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-p12EU-ELSMA-200:

- Advantenna-**p12**
- Frequency band : 865,6 MHz 867,6 MHz
- Edge mount connector, placed at the long side of the antenna
- SMA connector
- Model 200

ADAN-p12US-FRSMA-200:

- Advantenna-**p12**
- Frequency band : 902,0 MHz 928,0 Mhz
- Flange right angle connector
- · Default connector orientation
- SMA connector
- Model 200

ADAN-p12EU-FR270SMA-200:

- Advantenna-**p12**
- Frequency band : 865,6 MHz 867,6 MHz
- Flange right angle connector
- Connector rotated 270° 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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