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Advantenna-p12 ™

Far field antenna







Far field antenna



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.

Connector options







Flange straight Flange ri

Flange right angle

Edge mount

Flange straight



*Front-to-back ratio not drawn



Far field antenna

Tecnical specifications

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	000	4348-9-100-11-10

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 3.5 m				
Antenna Technology	Patch				
Radiation pattern	Wide beam in both directions in one hemisphere				
Gain	EU version 5.4 dBiC (Typical), 5.5 dBiC (Max), 3.2 dBiL* US version 5.6 dBiC (Typical), 5.8 dBiC (Max) 3.5 dBiL*				
VSWR	<1.4:1				
Beam width (AZ / EL)	60° / 90°				
Front-to-Back Ratio	<-20 dB				
Polarization	Circular - RHCP (Right Hand Circular Polarization)				
Axial Ratio	EU version* At Boresight 0.9 dB At 3dB Beamwidth 0.6 dB (Typical), 4.7 (Max) US version* At Boresight 1.3 dB At 3dB Beamwidth 1.6 (Typical), 3.4 (Max)				
Input Impedance	50 Ω				
Connector	SMA or MCX Flange, flange right angle, or edge mount (on the long 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 IP68 Dust resistant, even in high concentration Immersion resistant (up to 1 m for up to 30 minutes)				
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				
Antenna weight	230 g				

*Measured at the center of the band



Far field antenna

Mechanical specifications











View from the side that does not radiate

With edge mount connector

View from the side that radiates

Holes 📎 = 3.3 mm (0.13 in)





View from the side that does not radiate

View from the side that radiates



Far field antenna

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
					МСХ			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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