



### **Benefits:**

- Narrow beam in two directions
- High gain
- Very thin form factor

#### **Product overview**

Advantenna-p33 is a compact RFID UHF Antenna with circular polarization and a radiation pattern characterized by a pencil beam shape  $(40^{\circ}/40^{\circ})$ .

This radiation pattern makes this antenna ideal for many RFID applications such as overhead real-time inventory systems, magic mirrors and fitting rooms.

A set of Advantenna-p33 can be installed hanging from the ceiling in order to identify and locate tagged items in a given space in real -time.

In retail stores, Advantenna-p33 can be installed at the ceiling, over each fitting room. In this position, and thanks to its high directivity, the RFID system detects the RFID tags located in the corresponding fitting room, while minimizing the detection of items located in neighboring fitting rooms or in areas nearby.

#### **Connector options**





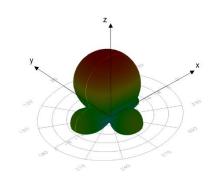
Flange straight

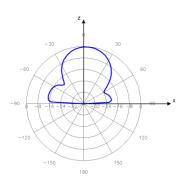
Flange right angle

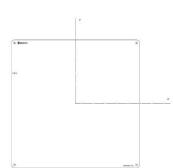
## Applications:

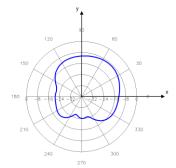
- Overhead real-time inventory systems
- Fitting rooms
- Magic mirrors
- Doors and corridors

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





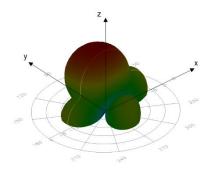


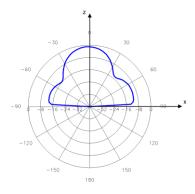


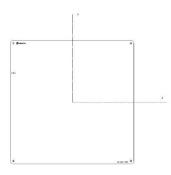


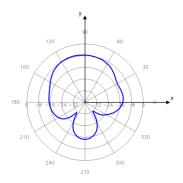


## Antenna radiation pattern for 902 - 928 MHz frequency band:









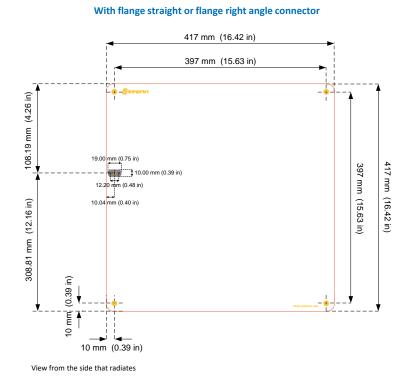
## Specifications

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 6 metres			
Radiation pattern	Pencil beam			
Beamwidth	40° / 40°			
Gain	10.7 dBi (EU version), 10.6 dBi (US version)			
Sidelobe level	< -15 dB			
Polarization	Circular – RHCP (Right Hand Circular Polarization)			
Input Impedance	50 Ω			
Connector	female SMA or MCX Flange or flange right angle			
IP rating	IP65, IP68 Dust resistant, even in high concentration Resistant to normal water jets for at least 3 minutes Immersion resistant (up to 1m for up to 30 minutes)			
Temperature range	-20°C to +80°C			
Size excluding connector	417 mm x 417 mm x 3.3 mm 16.4 inches x 16.4 inches x 0.13 inches			
Size with flange connector	417 mm x 417 mm x 15 mm 16.4 inches x 16.4 inches x 0.6 inches			
Antenna weight	1050 g			
Connector IP rating Temperature range Size excluding connector Size with flange connector	female SMA or MCX Flange or flange right angle IP65, IP68 Dust resistant, even in high concentration Resistant to normal water jets for at least 3 minutes Immersion resistant (up to 1m for up to 30 minutes) -20°C to +80°C 417 mm x 417 mm x 3.3 mm 16.4 inches x 16.4 inches x 0.13 inches 417 mm x 417 mm x 15 mm 16.4 inches x 16.4 inches x 0.6 inches			





## **Mechanical specifications**



Holes  $\varnothing$  = 3.3 mm (0.13 in)









## **Product codes for ordering**

ADAN-p33	FF	-	CS	COR	ст	-	mmm	
								FF = frequency band
	EU							865,6 MHz - 867,6 MHz
	US							902,0 MHz - 928,0 Mhz
								Connector shape
			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 flange straight)
								Model
							200	Model number

Examples:

#### ADAN-p33EU-FLSMA-200:

- Advantenna-**p33**
- Frequency band : 865,6 MHz 867,6 MHz
- Flange straight connector
- SMA connector
- Model 200

#### ADAN-p33US-FRSMA-200:

- Advantenna-p33
- Frequency band : 902,0 MHz 928,0 Mhz
- Flange right angle connector
- Default connector orientation
- SMA connector
- Model 200

#### ADAN-p33EU-FR270SMA-200:

- Advantenna-**p33**
- Frequency band : 865,6 MHz 867,6 MHz
- Flange right angle connector
- Connector rotated 270° counterclockwise
- SMA connector
- Model 200

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