Advantenna-p16 ™





Benefits:

- Narrow beam in the endfire direction
- Wide beam in the broadside direction
- High gain
- · Very thin form factor
- Cost effective

Applications:

- Time keeping of sport events (marathons, etc.)
- Race timing
- Overhead loss prevention systems
- Portals
- Doors and corridors
- Toll systems
- Vehicle tracking

Product overview

Advantenna-p16 is a compact RFID UHF antenna with circular polarization and a radiation pattern characterized by a 20° beam width in the endfire direction and a 90° beam width in the broadside direction. This radiation pattern makes this antenna ideal for many RFID applications such as:

- Time keeping of sport events, marathons, race timing
- Overhead loss prevention systems
- Portals
- Corridors
- Doors
- Toll systems
- Vehicle tracking

Connector options







Flange straight

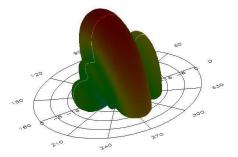
Flange right angle

Edge mount

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 9 m		
Radiation pattern	Fan beam		
Gain	9.4 dBi (EU version), 9.3 dBi (US version)		
Beam width	20° / 90°		
Sidelobe level	<-15 dB		
Polarization	Circular		
Input Impedance	50 Ω		
Connector	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	837 mm x 137 mm x 3.3 mm 32.9 inches x 5.4 inches x 0.13 inches		
Size with flange connector	837 mm x 137 mm x 15 mm 32.9 inches x 5.4 inches x 0.6 inches		
Size with edge mount connector	837 mm x 137 mm x 8 mm 32.9 inches x 5.4 inches x 0.3 inches		
Antenna weight	725 g		

Radiation pattern



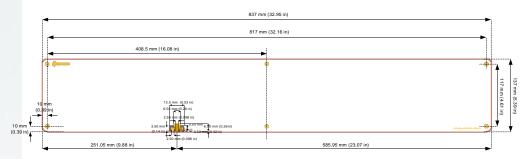


Mechanical specifications

With flange straight or flange right angle connector



With edge mount connector



View from the side that radiates

Antenna Board Thickness = 3.3 mm (0.13 in)

Holes 🚫 = 3.3 mm (0.13 in)



Advantenna-p16 ™





Product codes for ordering

ADAN-p16	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-p16EU-ELSMA-200:

- Advantenna-**p16**
- Frequency band: 865,6 MHz 867,6 MHz
- Edge mount connector, placed at the long side of the antenna
- SMA connecto
- Model 200

• ADAN-p16US-FRSMA-200:

- Advantenna-**p16**
- Frequency band : 902,0 MHz 928,0 Mhz
- Flange right angle connector
- Default connector orientation
- SMA connector
- Model 200

• ADAN-p16EU-FR270SMA-200:

- Advantenna-**p16**
- Frequency band: 865,6 MHz 867,6 MHz
- Flange right angle connector
- Connector rotated 270° counterclockwise
- SMA connector
- Model 200

