



# keonn

Modular RFID  
Components

## Advantenna-p14 <sup>TM</sup>

Far field antenna





### 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

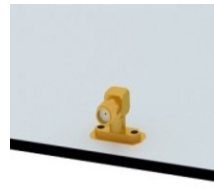
Advantenna-p14 is a compact RFID UHF 4 elements patch antenna with circular polarization and a radiation pattern characterized by a 30° beam width in the direction of the antenna long edge and 90° in the direction of the antenna short edge. This radiation pattern makes this antenna ideal for many RFID applications such as:

- Loss prevention systems
- Portals, tunnels
- Corridors
- Doors

### Connector options



Flange straight

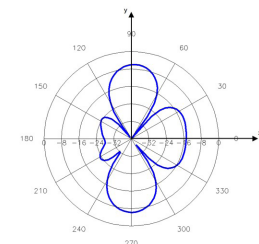
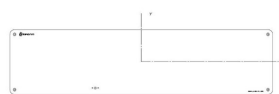
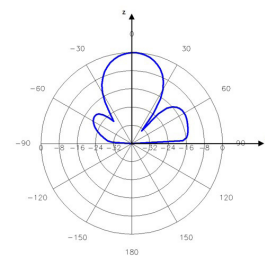
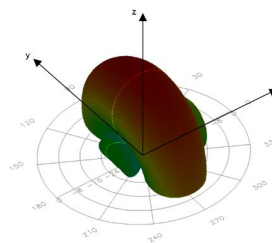


Flange right angle



Edge mount

### Antenna radiation pattern



\*Front-to-back ratio not drawn

### Tecnical specifications

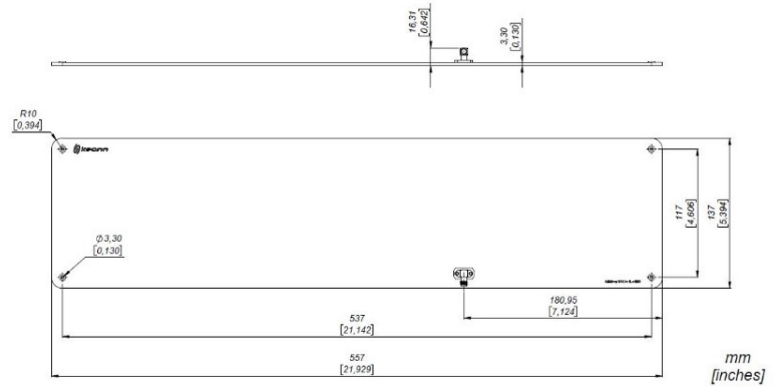


Operating Frequency EU Version	865 - 868 MHz (ETSI EN 302 208)
Operating Frequency US Version	902 - 928 MHz (FCC part 15)
Operating Detection distance	Up to 4.5 m
Antenna Technology	Patch
Radiation pattern	Fan beam
Gain	<b>EU version</b> 8.0 dBiC (Typical), 8.1 dBiC (Max) 5.5 dBIL* <b>US version</b> 8.1 dBiC (Typical), 8.4 dBiC (Max) 5.5 dBIL*
VSWR	< 1.4:1
Beam width (AZ / EL)	30° / 90°
Sidelobe level	< -15 dB
Front-to-Back Ratio	< -18 dB
Polarization	Circular - RHCP (Right Hand Circular Polarization)
Axial Ratio	<b>EU version*</b> At Boresight 0.6 dB At 3dB Beamwidth 0.5 dB (Typical), 3.6 (Max) <b>US version*</b> At Boresight 0.2 dB At 3dB Beamwidth 0.6 dB (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	557 mm x 137 mm x 3.3 mm 21.9 inches x 5.4 inches x 0.13 inches
Size with edge mount connector	557 mm x 137 mm x 8.7 mm 21.9 inches x 5.4 inches x 0.3 inches
Size with flange mount connector	557 mm x 137 mm x 16 mm 21.9 inches x 5.4 inches x 0.6 inches
Antenna weight	460 g

\*Measured at the center of the band

## Mechanical specifications

With flange straight or flange right angle connector



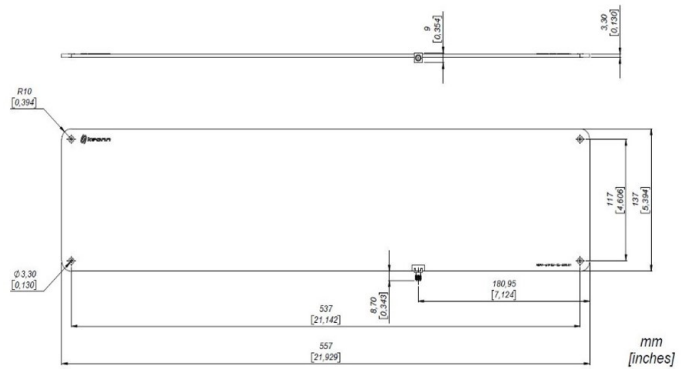
View from the non-radiating side



View from the non-radiating side



With edge mount connector



View from the non-radiating side



View from the non-radiating side

### Product codes for ordering

ADAN-p14	FF	-	CS	COR	CT	-	mmm	
								<b>FF = frequency band</b>
	EU							865,6 MHz - 867,6 MHz
	US							902,0 MHz - 928,0 MHz
								<b>Connector shape</b>
			EL					Edge mount, at the long side of the antenna
			FL					Flange straight
			FR					Flange right angle
								<b>Connector orientation (only for right angle SMA connector)</b>
								Default orientation
				90				Rotated 90° counterclockwise
				180				Rotated 180° counterclockwise
				270				Rotated 270° counterclockwise
								<b>Connector type</b>
					SMA			SMA connector
					MCX			MCX connector (only available in edge mount and flange straight)
								<b>Model</b>
							200	Model number

Examples:

#### ADAN-p14EU-ELSMA-200:

- Advantenna-p14
- Frequency band : 865,6 MHz - 867,6 MHz
- **Edge mount** connector, placed at the long side of the antenna
- **SMA** connector
- Model **200**

#### ADAN-p14US-FRSMA-200:

- Advantenna-p14
- Frequency band : 902,0 MHz - 928,0 MHz
- **Flange right angle** connector
- Default connector orientation
- **SMA** connector
- Model **200**

#### ADAN-p14EU-FR270SMA-200:

- Advantenna-p14
- 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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