



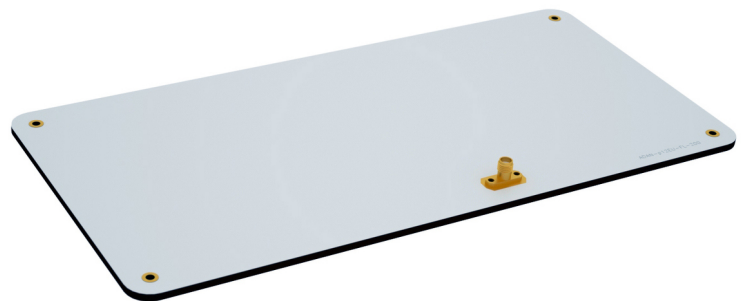
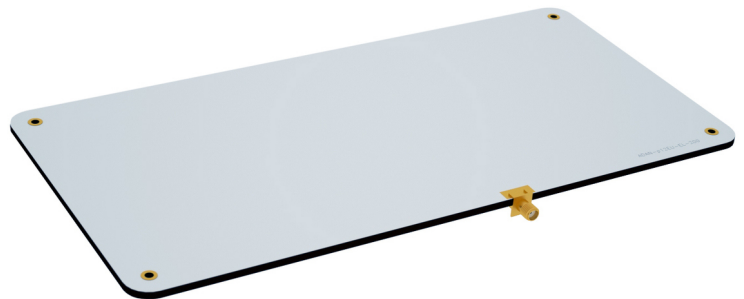
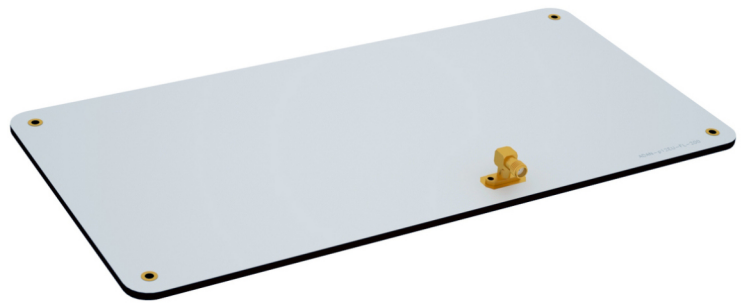
P12

UHF RFID ANTENNA

The Vulcan RFID™ p12 UHF RFID Antenna is a compact RFID UHF antenna with circular polarization and a radiation pattern characterized by a 90° beamwidth in the broadside direction and a 60° beamwidth in the endfire direction. This antenna has a very **thin form factor**, which allows for the integration of the antenna inside thin objects.

The Vulcan RFID™ p12 UHF RFID Antenna is ideal for loss-prevention systems at retail stores as it can be embedded inside pedestals of electronic article surveillance (EAS) based on acoustomagnetic technology, transforming such pedestals into hybrid systems that include two technologies simultaneously: acoustomagnetism and RFID. This antenna also integrates well into Point of Sale systems.

This antenna is **IP 68 rated**, meaning it is dust resistant even in high concentrations, making it perfect for indoor and outdoor use. Additionally, this antenna can withstand water immersion up to 1 m (3 ft) up to 30 minutes.





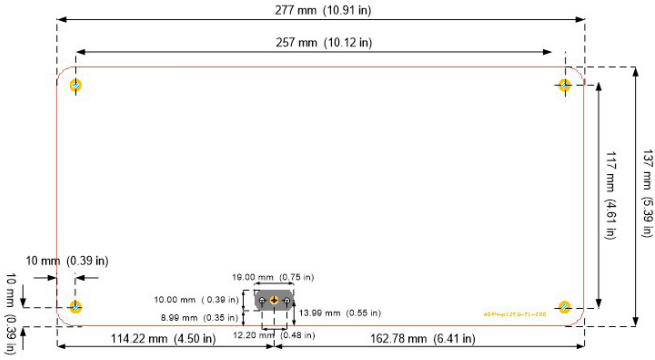
Specifications

ELECTRICAL	Operating Frequency:	FCC (902-928 MHz), ETSI (865-868 MHz)
	Polarization:	Right Hand Circular
	Gain:	5.3 dBi (US), 5.3 dBi (EU)
	Max Read Distance:	Up to 3.5 m (11.5 ft)
	Elevation Beamwidth:	60°
	Azimuth Beamwidth:	90°
	Input Impedance:	50 Ω
	VSWR:	< 1.4:1
	Front-to-Back Ratio:	< -20 dB
	Axial Ratio:	US: At boresight 1.3 dB, at 3 dB beamwidth 1.3 dB (typical), 3.4 dB (max)
		EU: At boresight 0.9 dB, at 3 dB beamwidth 0.6 dB (typical), 4.7 dB (max)
	Radiation Pattern:	Wide beam in both directions, one hemisphere
Antenna Technology:	Patch	
MECHANICAL	Connector Type:	SMA Female (connects to SMA Male)
	Mounting:	Integrated Mounting Holes
	Cable:	Not Included
	Dimensions - Excludes Connector:	277 x 137 x 3.3 mm (10.8 x 5.4 x 0.13 in)
	Dimensions - Edge Mount Connector:	277 x 137 x 8 mm (10.8 x 5.4 x 0.3 in)
	Dimensions - Flange Connector:	277 x 137 x 15 mm (10.8 x 5.4 x 0.6 in)
	Weight:	0.23 kg (0.51 lbs)
ENVIRONMENT	Operating Temperature:	-20 °C to +80 °C (-4 °F to +176 °F)
	IP Rating:	IP 68



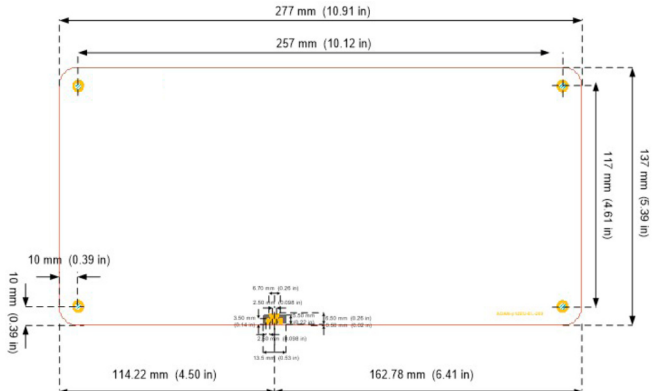
Diagrams

With flange straight or flange right angle connector



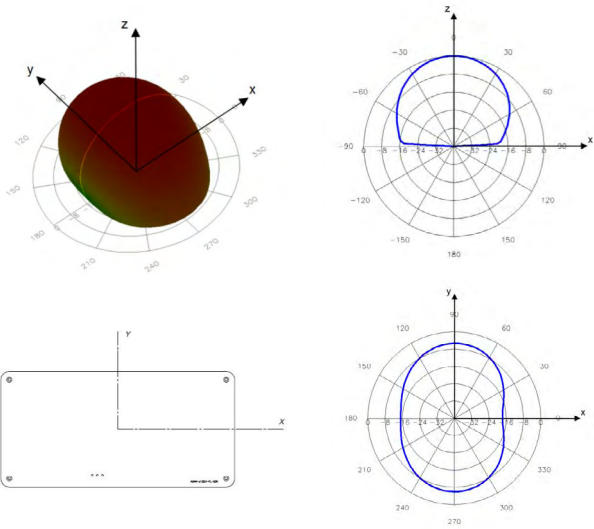
Antenna Board Thickness = 3.3 mm (0.13 in)
Holes \varnothing = 3.3 mm (0.13 in)

With edge mount connector



Antenna Board Thickness = 3.3 mm (0.13 in)

Radiation Pattern





Product Variations

Product Code	Connector Type	FCC (902-928 MHz)	ETSI (865-868 MHz)
	Flange Straight	VUL-ADAN-P12US-FLSMA-200	VUL-ADAN-P12EU-FLSMA-200
	Flange Right Angle	VUL-ADAN-P12US-FRSMA-200	VUL-ADAN-P12EU-FRSMA-200
	Edge Mount	VUL-ADAN-P12US-ELSMA-200	VUL-ADAN-P12EU-ELSMA-200

Accessories & Compatible Products

Vulcan RFID™



VUL-MAPPER

Vulcan RFID™



VUL-ADHD-ADANP12-100

Vulcan RFID™



195-RP-TNC-M-SMA-M-12
240-RP-TNC-M-SMA-M-25
400-RP-TNC-M-SMA-M-35

*For custom cable connectors or lengths please [contact us](#).

About Vulcan RFID™ Products

Vulcan RFID™ offers a broad range of innovative RFID antennas, RFID inlays, custom RFID tags, and accessories suited for a wide variety of industries and applications. With an extensive portfolio, Vulcan RFID™ products are manufactured to withstand environments ranging from mild to extreme. All Vulcan RFID™ products are thoroughly tested and built on a name you can trust. Vulcan RFID™ products enable you to reach and sustain high levels of performance with your UHF or NFC frequency application.



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