



CONVERGENCE SYSTEMS LIMITED

OUTDOOR-RATED ANTENNA



CS780 ANTENNA

CS780 long-range RFID antenna is a best-in-class antenna for use with RFID readers for ultra long-range tag reading. The antenna has industry leading circular polarization properties (e.g., axial ratio) to enable best read yield of tags of all orientations as they approach the sweet zone of the antenna. The antenna has extremely good VSWR for minimal self-jamming effect for best RFID reader sensitivity. The antenna has narrow beam width and excellent front-to-back ratio to even handle traffic-lane monitoring applications. The antenna is housed in a heavy-duty IP67 enclosure that can be directly wall mounted. The antenna is offered with either a flange mounted connector at the back or a pigtail (short or long). The antenna comes with either male or female TNC or SMA connectors, with normal or reverse polarity.

PRODUCT FEATURES:

Industry-leading read range performance far field antenna.

Best in class axial ratio.

Circular Polarization

Global Frequency Coverage

Excellent matching for best read performance.

Excellent circular polarization for reading tags of all orientations.

APPLICATIONS:

**Logistics
Quality Control**

**Waste Disposal Management
Cold Chain Management
Asset Management**

**Auto Toll Gates
Vehicle Mounting**

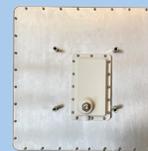
**Student Monitoring
Vehicle Monitoring
Remote Monitoring
Personnel Tracking
Animal Tracking**



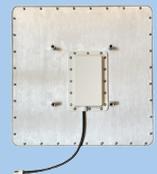
Integrates with CS463 Reader



Integrates with CS203XL Reader



Flange Connector



Pigtail Connector

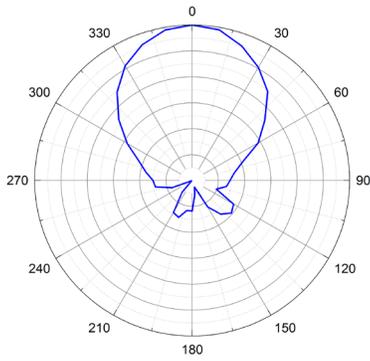
ANTENNA single option



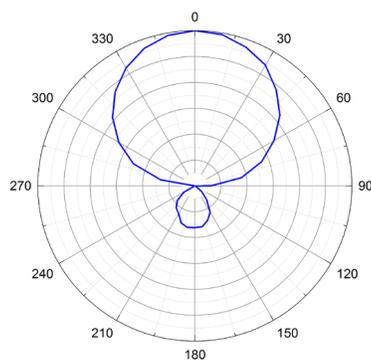
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RADIATION PATTERNS:

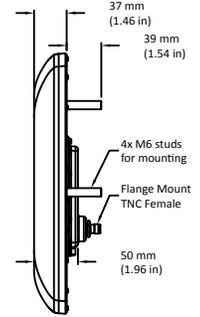
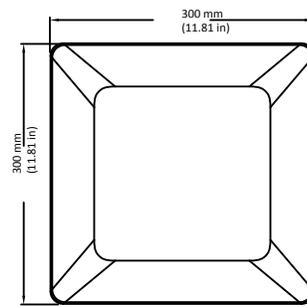


HORIZONTAL



VERTICAL

MECHANICAL DIMENSIONS:



SCAN HERE FOR
FULL DIMENSIONS

ORDER CODE: CS780-NxHCP-K(L)

PRODUCT ORDERING:

Model	Frequency Band	Polarization	Connector Style (*)		Cable Length	Connector Mounting Style
		xHCP	K		(L)	
CS780	1: 865 - 868 MHz 2: 902 - 928 MHz	X = L or R L: Left-Hand R: Right-Hand	SMA, Female, Bulkhead	SMAJB	blank	Flange Mount
			TNC, Female, Bulkhead	TNCJB		
			SMA, Female	SMAJ	(26): 26 cm (10 in) (240): 240 cm (96 in)	Pigtail with connector
			TNC, Female	TNCJ		

Operating Frequency	865-868 MHz 902-928 MHz
Polarization	Left-Hand Circular Polarization (LHCP) Right-Hand Circular Polarization RHCP
Antenna Gain	9.4 dBic
Elevation Beam Width	65°
Azimuth Beamwidth	65°
Input Impedance	50Ω
VSWR	1.2 : 1
Front-to-Back Ratio	18 dB
Axial Ratio	1.0 dB
Maximum Input Power	10 Watts
Connector Style	3 Options: Flange, Short Pigtail, Long Pigtail
Connector Type	TNC Female, SMA Female, etc (*)
Pigtail Length	Short Pigtail: 26 cm (10 in), Long Pigtail 240 cm (96 in)
Weight	1.07 kg (2.36 lbs)
Physical Dimension	300 x 300 x 50 mm (11.81" x 11.81" x 1.96")
Radome Material	Durable ASA
Mounting Style	100 X 100 mm VESA, M4 studs with pitch 0.7 mm
Environment	Operating Temp: -40A°C to +70A°C (-40A°F to 158A°F) Storage Temp: -40A°C to +70A°C (-40A°F to 158A°F) Humidity: 10% to 95% Non-condensing
Lightning Protection	DC Grounded
Environmental Rating	IP 67