



## S8656XR

### Metal CP RFID Panel Antenna

#### 865-870 MHZ FORKLIFT MOUNT 6DBIC CP RFID PANEL ANTENNA

The Laird S8656XR antenna gives RFID users an antenna that meets all of the criteria requirements for forklift RFID applications. At only 7.6 x 7.6 x .95", the antenna is small enough to accommodate a wide variety of forklift applications. The antenna provides 6dBi of gain in the 865-870 MHz band.

The antenna material construction is unique in that it is an all metal antenna. No exterior radome enclosure is required to protect critical components. The result is an antenna that is extremely robust and resistant to damage. The antenna can be mounted directly to the forklift allowing for a view directly into any pallet. Two antennas can be mounted side-by-side on a custom configured mounting platform if that is desirable.

The antenna is provided with a plastic front panel that is secured with adhesive for the purposes of providing a surface that can be used for branding or for any other graphical element that the customer might desire.

#### FEATURES

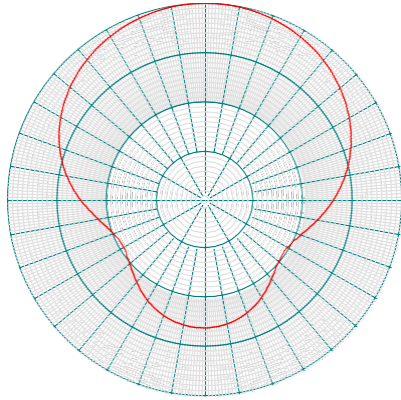
- Low profile
- Extremely low VSWR
- Wide band
- Weather resistant radome
- Wide range of connector options

#### APPLICATIONS

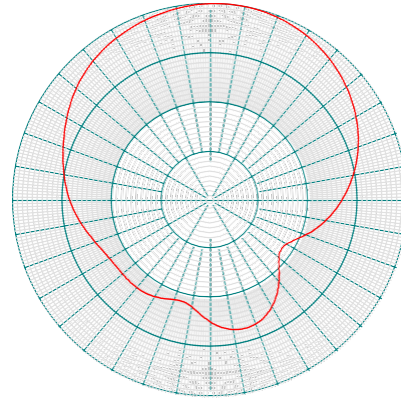
- Direct forklift mount
- Warehouse
- Distribution center
- Airports and hospitals
- Transit terminals
- Conveyor belt

## SPECIFICATIONS

Antenna Part Number	S8656XR
Frequency Range	865-870 MHz
Gain	6 dBic
Maximum VSWR	1.5:1
3 dB Beamwidth - Azimuth	80o
Front-to-Back Ratio	8 dB
Polarization	Circular right-hand
Maximum Input Power	4 Watts
Input Impedance	50 Ohms
Axial Ratio	3 dB Typical
Weight (Kg)	2.6 lbs (1.2)
Mechanical Size	7.59 x 7.59 x .95"
Antenna Connection	Right angle Type N Female Other configurations available by request
Radome	Aluminum w/minimal Polycarbonate
Mount Style	Chassis mount
Temperature Operational	-30oC to +70oC
Lightning Protection	DC grounded
Water/Foreign Body Ingress	IP67



Right-hand circularly polarized  
linear azimuth plot.



Right-hand circularly polarized  
linear elevation plot

## TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

## te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2021 TE Connectivity. All Rights Reserved.

12/21 Original