

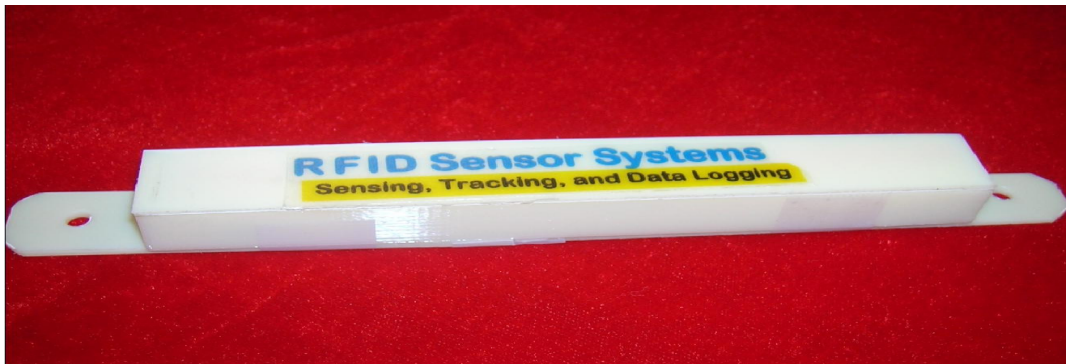
RFID Sensor Systems

Sensing, Tracking, and Data Logging

T050 Fully Passive Long Ranger™ Tag

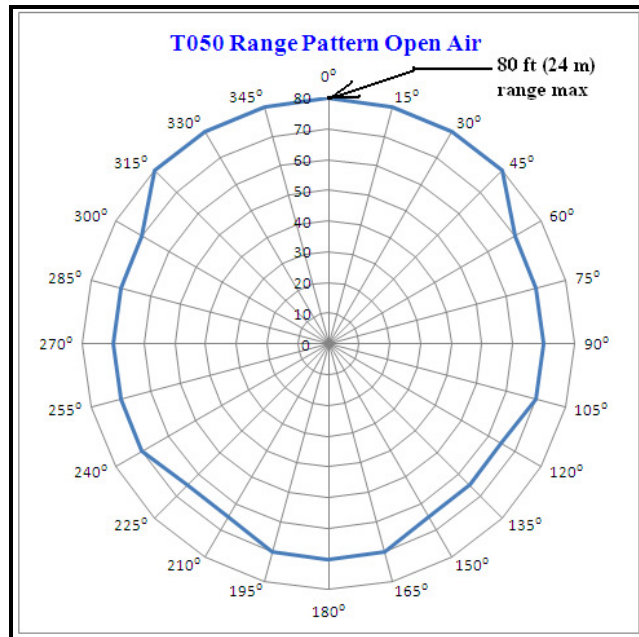
RFID Sensor Systems offers tags, readers, and small systems compliant with EPC Gen2 class 1 international standard. We offer a variety of tags with different mounts and read/write range. Our product line is further enhanced with EPC Gen2 class1 tags providing immediate sensor data and logged sensor data. Most of our tags are available with adhesive backing, Velcro-like backing, magnetic strip backing, and screw-hole mounting options. Our passive tags include industry standard CMOS Gen2 class1 (ISO 18000-6c) integrated circuit ICs.

The T050 low profile passive tag is optimized with its maximum range in open air applications. It also provides a range when mounted on or near metallic or liquid beyond competitive tags including most tags specified for metal mount. The T050 tag provides exceptional range for all orientations within the plane normal to the axis of the tag.

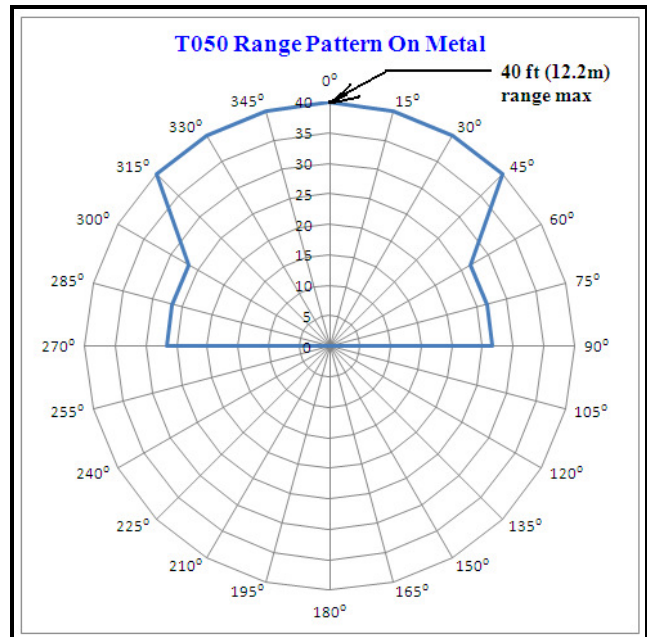


EPC Gen2 class1/ ISO 18000-6c compatible

Features	
Tag Dimensions:	6.7 x 0.4 x 0.7 in. (170 x 10 x 18 mm)
Frequency :	902 - 928 NA + SA, 865.7- 867.6 EU, 865 - 867 India, 902-907.5 Brazil, 920-925 Australia, 865.7-967.6 MHz
Read Range:	Up to 80 feet (24.0 meters) (36dBm ERP directional outside with standard reader) Reduced read range when mounted on metal
Memory 800 bits total:	512 user bits + 96 bit EPC code + 64 bit unique TID + 32 bit access password + 32 bit kill password. Also preprogrammed with unalterable 64-bit serial number.
RFID protocol chip:	Alien Higgs3™
Ambient temperature:	-58 to 185 °F (-50 to +85 °C)
Humidity:	IP-66
Standard color:	White (Other colors optional)
Standard Mountings:	Screw Holes
Attachment options:	Adhesive backing or Velcro-like backing
Compatible Standards:	EPC Gen2 Class 1 /ISO 18000-6c including 6.25, 12.5, 25.0 μs tari
Return data link:	40, 80, 160, 320, 640 kHz



Range radius is calibrated in feet

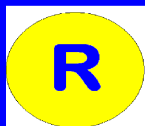


Range radius is calibrated in feet

The polar co-ordinate plots of tag range are obtained with an ISO 18000-6c reader operating with 30 dBm RF power and a standard patch antenna with 6 dBm gain. Plots are provided for the tag characterized in open air and against a metal plate. Frontal range is indicated as 0° orientation. Lateral range in the plane of substrate or metal is indicated as 90° orientation.

Long Ranger Applications

- Asset Tracking
- Railroad Tracking
- Manufacturing conveyer tagging
- Cargo container Tracking
- Inventory Tracking



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