

CS5112TD Wide Beamwidth RTLS RFID Slave Reader/Anchor



Product Profile:

CS5112TD is a wide beamwidth (180 degrees) member of the CSL RTLS RFID reader/anchor family optimized for installation along the side of a cell. This family consists of Real Time Location reader that can provide up to +/- 1 meter location resolution.

CS5112TD is the slave anchor for placing at some reference points on the RTLS cell for measuring the ranges with tags.

The tag location is then calculated based on these ranging data.



Features:

- +/- 1 meter location resolution in outdoor environment
- Long read range (up to 200m or above)
- 180 degree azimuth beamwidth at portrait manner – best placing along the side of a RTLS cell
- Low power consumption – can be powered by external 12V or 24 V battery
- Programmable LED
- Best location accuracy at lowest overall system cost in the industry

Specifications:

Physical Characteristics:	Sealed enclosure: 29 cm x 21.2 cm x 8 cm; Weight 1.5 Kg	
Read Range:	Up to 200 meters in open space outdoor	
Frequency Range:	2400-2483 MHz ISM license-free band	
Environment:	Operating Temp: -40°C to 65°C (-40°F to 149°F) Storage Temp: -40°C to 85°C (-40°F to 185°F) Humidity: 0% to 95% RH non-condensing	
Technology:	CHIRP	
Output RF Power:	14 dBm EIRP	
Antenna:	Embedded 5 dBi patch antenna	
Ranging Method:	Time Of Arrival (TOA)	
Ranging Accuracy:	Best case up to +/- 1 meter outdoor and +/- 2 meters indoor	
Protocol:	CSL RTLS Protocol, orderly inventory method to handle large tag population	
Dust & Water:	IP67, works in outdoor environment	
Shock & Vibration:	MIL-STD-810F Method 516.5 Procedure V, 75g, 6ms, 2 shocks per axis, MIL-STD-810F Method 514.5 Category 24	
Display:	LED x 2, Power and Signal	
Power Requirement:	12V - 24 V DC supply	
Accessories:	24V power adaptor (CSLRTLS-AD-XX) and mounting kit (CSLRTLS-MOUNTING) included	
Order Code:	CS5112TD-XX Accessories: CSLRTLS-AD-XX CSLRTLS-MOUNTING	(where XX represents the power adaptor type: US: US-type; EU: European-type; UK: BS/UK/HK-type; AU: Australian-type) (where XX represents the power adaptor type as above) (Mounting kit for RTLS anchor)

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