

CS5113TD Narrow Beamwidth RTLS RFID Master Reader/Anchor with Ethernet

Product Profile:

CS5113TD is an Ethernet enabled narrow beamwidth (80 degrees) member of the CSL RTLS RFID reader/anchor family optimized for installation at the corner of a cell. This family consists of Real Time Location reader that can provide up to +/- 1 meter location resolution. CS5113TD is the "Master" anchor whereas it manages the tag population in the cell.



Features:

- +/- 1 meter location resolution in outdoor environment
- Long read range (up to 200m or above)
- 80 degree azimuth beamwidth at portrait manner – best placing at corners of a RTLS cell
- Ethernet connectivity with Power Over Ethernet (POE)
- Low power consumption – can be powered by external 12V or 24V 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:	15 dBm EIRP	
Antenna:	Embedded 9 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	
Network Connectivity	Ethernet, POE (Power Over Ethernet)	
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:	PoE or 12V - 24 V DC supply	
Accessories:	24V power adaptor (CSLRTLS-AD-XX) and mounting kit (CSLRTLS-MOUNTING) included	
Order Code:	CS5113TD-XX	(where XX represents the power adaptor type: US: US-type; EU: European-type; UK: BS/UK/HK-type; AU: Australian-type)
Accessories:	CSLRTLS-AD-XX	(where XX represents the power adaptor type as above)
	CSLRTLS-MOUNTING	(Mounting kit for RTLS anchor)