

# CS5111TD Narrow Beamwidth RTLS RFID Slave Reader/Anchor



## Product Profile:

CS5111TD is a 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.

CS5111TD 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)
- 80 degree azimuth beamwidth at portrait manner – best placing at corners 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:	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
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:	CS5111TD-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)

CHUNG NAM BUILDING,

20<sup>th</sup> Floor,

No. 1 Lockhart Road,

Wanchai

Hong Kong

TEL: (852) 25293008

FAX: (852) 26832018

WEBSITE:

www.convergence.com.hk