

# CS5116TD Omni-directional RTLS RFID Slave Reader/Anchor



## Product Profile:

CS5116TD is an omni-directional (360 degrees) member of the CSL RTLS RFID reader/anchor family optimized for installation in the middle of the cell. This family consists of Real Time Location reader that can provide up to +/- 1 meter location resolution. CS5116TD is the omni-directional 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)
- 360 degree viewing angle – best for placing in the middle 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: 19.5 cm x 16.5 cm x 4.8 cm; Weight 710g
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 (with 9dBi gain dipole antenna)
Antenna:	4 different dipole antennae included for user's own selection (9dBi, 7dBi, 5dBi, 2dBi)
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:	IP65
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:	CS5116TD-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