

CS3151TC RTLS Asset & Personnel RFID Tags

Product Profile:

CS3151TC is a member of the CSL RTLS Asset & Personnel RFID tag family. This family consists of Real Time Location tag that can provide up to +/- 1 meter location resolution.



Features:

- +/- 1 meter location resolution in outdoor environment
- Low cost AAA battery operation
- Programmable LED
- Tamper evident battery compartment door
- Motion sensor and temperature sensor standard feature, and with optional alert button, accelerometer, buzzer and vibrator
- Deep sleep mode to save battery power when tag is out of coverage
- Mounting with battery door face up (easy access) or face down (concealed for security)
- Best location accuracy at lowest overall system cost in the industry

Specifications:

Physical Characteristics:	Plastic sealed enclosure: 94 mm x 56 mm x 15 mm; Weight 84 g
Read Range:	Up to 200 meters in open space outdoor
Frequency:	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:	13 dBm EIRP
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:	IP68, 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
Update Cycle:	1 second or more (depends on configuration)
Battery:	3 AAA batteries, off the shelf, Primary cell (alkaline) or Ultimate Lithium or Low Leakage NiMH Rechargeable (Rayovac, GP, Sanyo), or Lithium Ion Rechargeable AAA cell (typically 300 mAh)
Battery Life:	For 1250 mAh AAA Energizer Alkaline (X92) – assume 10% time in motion

Update Cycle Time	Battery Life with 10% motion sensed by motion sensor
2 seconds	1.5 month
5 seconds	3.5 months
10 seconds	7 months

Order Code:	CS3151TC	Standard (with motion and temperature sensor)
	CS3151TC-BU-A-B-V	With optional alert button/ accelerometer/ buzzer/ vibrator



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