CS3156 RTLS Asset & Personnel RFID Tags

CSL CONVERGENCE SYSTEMS LIMITED

CS3156 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. CS3156 is meant for asset tagging. It has extra long battery life, and allows in field battery recharging using mobile charger that are readily available in the market (for smart phone mobile charging).

Applications

Vehicle monitoring	Waste disposal management	Industrial Composites and Chemicals Tracking
Remote monitoring	Asset Management	
Logistics		

Dimensions	90 x 48 x 21 mm (3.55 x 1.89 x 0.83 in)
Weight and Casing	84 g in Plastic sealed enclosure
Read Range	Up to 200 meters in open space outdoor
Operating 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	19 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, TDMA and TDM, orderly inventory method to handle large tag population
Sensor	Motion and Temperature sensor
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	2100 mAh Built-in Lithium Ion Rechargeable Battery with USB Cable
Battery Life	Assume 10% time in motion.
	Cycle time 30 seconds : Battery Life : 12 months
	Cycle time 1 minute : Battery Life : 24 months
	Cycle time 5 minutes : Battery Life : 5 years
Order Code	CS3156

Product Features

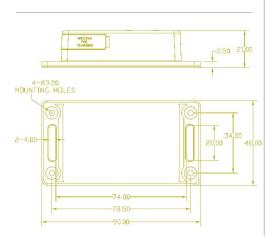+/-1 meter location resolution in outdoor environment

Battery rechargable operation

Programmable LED

Motion sensor and temperature sensor standard feature

Deep sleep mode to save battery power when tag is out of coverage

Best location accuracy at lowest overall system cost in the industry

UNCOVER FOR CHARGING
3.50 21.00

4-Ø3.20 MOUNTING HOLES

2-4.0D
34.00
20.00 48.00

74.00
78.50
90.00