

LTE CAT M1 · DATA SHEET

SC-1205V™

LTE CAT M1 tracking gateway for fixed and in-transit assets



DIMENSIONS

142.7 × 82.7 × 32.7 mm
(5.62 × 3.26 × 1.29 in)

WEIGHT

258 g
(9.1 oz)

Overview

The SC-1205V logs location and environmental conditions for fixed-site and in-transit asset tracking. LTE CAT M1 connectivity, onboard sensors, a captive harness, and a high-capacity Bluetooth Low Energy gateway that reads up to 600 CalAmp iOn Tags support warehouse and cargo visibility.

Highlights



LTE CAT M1 connectivity supports asset visibility



Bluetooth Low Energy gateway reads up to 600 CalAmp iOn Tags



Captive-harness sensors monitor light, motion, shock, and temperature



Digital and analog I/O connect external sensors and controls



Internal backup battery maintains reporting during power loss



Supports fixed-site, warehouse, cargo, and asset monitoring

PHYSICAL DESIGN

Dimensions	142.7 × 82.7 × 32.7 mm (5.62 × 3.26 × 1.29 in)
Weight	258 g (9.1 oz)

CELLULAR

LTE CAT M1 Bands	B1, B2, B3, B4, B5, B8, B12, B13, B28
2G Bands	B2, B3, B5, B8

GNSS

Constellation Support	GPS
Location Accuracy	GPS: 3-5 m; Wi-Fi: 100 m; Cellular: 500 m

WIRELESS INTERFACES

Bluetooth	BLE
Wi-Fi	802.11b/g/n, 2.4 GHz

ANTENNAS & SIM

Cellular Antenna	Internal
GPS Antenna	Internal

POWER

Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-35 VDC (momentary)
Power Consumption	Typical 4 uA at 12 V deep sleep; typical 100 mA at 12 V radio-active sleep
Battery Capacity	Up to 4000 mAh
Battery Technology	Lithium-ion (Li-ion)
Battery Type	Internal backup battery
Charging Temperature	0° to +45° C

ENVIRONMENTAL

Temperature	Operating: -10 to 50 C (14 to 122 F) Storage: -10 to 40 C (14 to 104 F)
Humidity	85% RH at 50 C, non-condensing
Shock & Vibration	SAE J1455
ESD	IEC 61000-4-2, 4 kV
Environmental Rating	IP66 Certified (connector dependent)

SENSORS

Temperature Sensor	NIST traceable; typical accuracy +/-0.5 C (-30 to 60 C); configurable min/max thresholds
Shock Sensor	Dedicated 3-axis accelerometer; 16 G max; impact, drop and 90-degree tilt events
Light Sensor	Threshold on/off
Proximity Sensor	Supported through BLE proximity tags

I/O

Ignition Inputs	1 ignition input (included among 2 digital inputs)
Digital Inputs	2 (general purpose and ignition)
Digital Outputs	1 general purpose; door locking/unlocking
Analog Inputs	1 external ADC input, 0-35 VDC
Status LEDs	Status LED shown on device; behavior not specified

CLOUD / SOFTWARE SERVICES

Device Management	Manage, configure, and deploy OTA software updates to connected assets at scale
CalAmp Telematics Cloud	Stream telematics data into proprietary systems with flexible API integration
CalAmp App	Fleet and asset management software for tracking, monitoring, and managing vehicles, equipment, drivers, assets, and cargo.

CERTIFICATIONS

Certifications	FCC; PTCRB; Industry Canada
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