

DATASHEET:
ASSET & EQUIPMENT TRACKER
CP45



CP45 series is a self-contained LTE Cat 1 modem with integrated GPS engine, cellular and PCS antennas, accelerometer, motion detector, and 1 Ah internal rechargeable battery.

Featuring a powerful 32-bit microprocessor and unique power management algorithm, CP45 consumes less than 120 μ A in sleep mode and yet capable of periodic reporting of health, status and location of remote assets. With multiple input and output ports along with proven embedded application, CP45 is an ideal solution for monitoring and control of high value remote assets where input power availability is of concern.

CP45 has been designed with the latest GPS technology allowing GPS tracking under extreme conditions where most other competing products fail. The weatherproof case (meets IEC 68-2-27 environmental standard and is IP66 certified) allows CP45 to be used in a myriad of applications such as containers, trailers, and mobile equipment.

CP45 is another example of our dedication to provide state-of-the-art asset tracking products that are flexible and that address the ever growing number of customer requirements and use cases.

KEY FEATURES

- AT&T or Verizon LTE Cat M1
- LED indicators for sensor activity and detections
- Over-the-Air firmware upgrade
- Supports FTP, HTTP, HTTPS
- 3-axis accelerometer and motion detector
- Internal temperature sensor
- Integrated GPS receiver and antenna
- Integrated LTE band antenna

USE CASES

- Trailer and Chassis (Wired Installation)
- Mobile Lighting
- Agriculture
- Pipeline
- Generators
- Heavy Machinery
- Transportation Equipment

CP45 SPECIFICATIONS:

CELLULAR SPECS - AT&T OR VERIZON: LTE/HSPA+ CAT 1

MNO	AT&T1, Verizon2
Supported Region(s)	United States
4G LTE FDD Bands	2, 4, 5, 12, 131
3G UMTS Bands2	2, 5
Power Class	3 (23 dBm)
SMS	MT/MO

MECHANICAL

Dimensions	4.89" x 2.67" x 1.21" (124.21 x 67.82 x 30.73 mm)
Weight	0.3 lbs (136 g)

PHYSICAL CONNECTIONS

Harness Connector	8-pin circular bayonet
Serial Interface	UART
Optional I/O	2 Digital Input
	3 ADC Inputs
Multi-function Button	WiFi/BLE Pairing, device wake-up
Operating Temperature	-22 °F to 158 °F (-30 °C to 70 °C)

POWER REQUIREMENT

DC Power	DC 8-30 V
Power Source	Internal 1 Ah Li-Ion rechargeable battery
Sleep Current	<120 µA typical

GPS MODULE

Receiver Type	72 channel
Tracking Sensitivity*	-165 dBm
Accuracy	± 2.5m CEP (50%, -130dBm, >6 satellites)
Certifications	Certifications: FCC, PTCRB, IC, AT&T1, Verizon2

