

Falcon LTE

Vehicle Tracking

The Falcon LTE is a hardwired GPS tracking device offering a powerful tracking solution in a very small package. Ideal for tracking personal vehicles, powersports, fleets, equipment and more. With integrated internal GPS and cellular antennas, the Falcon LTE installs very easily with a simple 3-wire installation.





General Specifications

Dimensions (L x W x H)	87mm x 55mm x 12.5mm (3.43in x 2.17in x 0.49in)
Weight	50g (1.76oz)
Battery Capacity	190 mAh
Battery Technology	Li-Polymer
Operating Voltage	8V to 32V DC
Bluetooth (optional)	Support BLE 4.0 protocol

Cellular

LTE Operating Band	Cat M1/NB-IoT: B1/B2/B3/B4/B5/B8/B12/ B13/B18/B19/B20/B25/B28
GSM Fallback	850 / 900 / 1800 / 1900 MHz GPRS multi-slot class 33 EDGE multi-slot class 33

Satellite Location (GNSS)

GNSS	u-blox All-in-one GNSS receiver
Sensitivity	Cold Start: -145dBm Tracking: -161dBm
Position Accuracy (CEP) TIFF (Open Sky)	Autonomous: < 2.5m Cold Start: 30s average Hot Start: 1s average

Environmental

Operating Temperature (with battery)	-30°C to + 80°C (-22°F to 176°F)
Storage Temperature (with battery)	-40°C to + 85°C (-40°F to 185°F)

Interfaces

Digital Inputs	1 positive trigger for ignition detection
Digital Outputs	1 digital output, open drain, 150 mA max drive current
Digital Input/Output	1 special I/O can be configured as a negative trigger digital input or an open drain output with 150 mA max drive current
Serial Port	1 TTL UART port for upgrading and debugging
Cellular Antenna	Internal only
GNSS Antenna	Internal only
Bluetooth Antenna (Optional)	Internal only
LED Indicators	CELL and GNSS

Features

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time schedules
Geofences	Geofence alarm, support circular and polygon fences
Tow Alarm	Alarm for tow event in ignition off state
Driving Behavior Monitoring	Aggressive driving behavior detection
Crash Detection	Accident data collection for reconstruction and analysis
Special Alarm	Special alarm based on digital inputs
Remote Control	OTA control of digital inputs