The FJ1400 family of mobile positioning units delivers a rich tracking feature set on the latest 4G cellular networks. This waterproof unit comes equipped with a comprehensive set of inputs and outputs and backup battery to meet most utility trailer, motorcycle and power sport applications. The FJ1400 family features Positioning Universals mobile adaptable firmware environment based on a lightweight JavaScript engine. The JavaScript engine enables developers to implement event based scripting quickly and easily using the most popular web language, bringing the power and security of the web eco-system to the FJ1400 product. The data generated by the unit can be transmitted via TCP, UDP or SMS messages. The FJ1400 family is also managed, configured and updated Over-The-Air with Positioning Universals new Device Management system (DMAN), which assists to improve device up-time, productivity and customer satisfaction.
Key Features

- IP67 rated waterproof sealed enclosure
- 4G LTE CAT 1 network connectivity with dual integrated cellular antennas
- High sensitivity GPS design
- 400 mAh battery backup limits workloads on smaller power sport main batteries and enables operation when power is disconnected
- 3-axis accelerometer for motion, driver behavior & impact detection
- Advanced power management capabilities enabling sleep and wake activities to reduce power needs
- IP67 sealed 4 wire harness with input/output
- Communications via TCP, UDP and SMS to send event reports (location, speed) to application server via the LTE (4G) cellular network
- Lightweight JavaScript Engine enables simple, flexible and rapid behavior modification of the device
- 1 serial UART interface to connect smart accessories including sensors, Magnetic/RFID readers, mobile data terminal and more
- 2K message storage log when out of coverage
- OTA (Over-The-Air) device management to update device configurations, update firmware, send alerts
- Optional built-in Piezo buzzer for audible alerting

Specifications

Positioning Universal

CELLULAR TECHNOLOGY
Dual-Band LTE Cat 1: Bands 4, 13
Tri-Band LTE Cat 1: Bands 2, 4, 12
Throughput: 10 Mbps Downlink / 5 Mbps Uplink

GPS TECHNOLOGY
Location Technology: 56 channel GPS (with SBAS)
Tracking Sensitivity: -162 dBm
Location Accuracy (open sky): +/- 2.5m (CEP)
Cold Start Acquisition: 29 seconds
Hot Start Acquisition: 1 second

ANTENNA
Internal dual 4G LTE cellular technology
Internal GPS patch antenna (25mm x 25mm x 4mm)

INTERFACES, I/O, AND LED
1 Digital Input, 1 Digital Output
Piezo Buzzer (optional)
LED Status Indicators: Cellular, GPS
4 wire molded sealed harness

POWER
Input Power Range: 6-36VDC (12 V or 24 V vehicles)
Tracking Mode: avg 65mA @ 12VDC
Low Power Sleep Mode: avg 2mA @ 12VDC
Battery: 1500 mAh rechargeable Lithium-ion

ENVIRONMENT
Operating Temp: -30º C to 80º C (connected to main power)
-20º C to 60º C (running on battery)
Storage Temp: -40º C to 85º C
Relative Humidity: Up to 95% non-condensing

CASE
Dimensions: 112mm x 54mm x 17mm
Weight: 100g
Mounting Options: adhesive or tie wrap

CERTIFICATIONS
NA: FCC, IC, PTCRB
ROW: CE, GCF, e-Mark, RoHS2
Applicable Carriers

Specifications are subject to change. Please see your Position Universal contact for more details.