The FJ1000 family of mobile positioning units delivers a rich set of tracking features on the latest 4G cellular networks. The unit comes equipped with a comprehensive array of inputs and outputs to meet stolen vehicle recovery as well as small and medium fleet vehicle applications. The FJ1000 family features Positioning Universals mobile adaptable firmware environment based on an 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 FJ1000 product. The data generated by the unit can be transmitted via TCP, UDP or SMS messages. The FJ1000 family is 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

- 4G LTE CAT 1 network connectivity with dual integrated cellular antennas
- High sensitivity GPS design
- 3-axis accelerometer for motion, driver behavior & impact detection
- Advanced power management capabilities enabling sleep and wake activities to reduce power needs
- Comprehensive I/O configurations with up to 4 inputs/4 outputs/1 ADC/1-Wire bus to detect vehicle ignition, drive starter interrupt relays, driver Identification/authorization, temperature sensing and more
- 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 internal 400mAh battery backup enables operation when power is disconnected
- Optional built-in Piezo buzzer for audible alerting

Positioning Universal

Specifications

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:
Up to 4 Digital Inputs, 4 Digital Output
1 Serial Interface (UART)
1-Wire Bus (optional)
1 ADC (optional)
Piezo Buzzer (optional)
LED Status Indicators: Cellular, GPS
4 Pin Power Connector (pwr, gnd, input, output)
4 Pin Serial Connector
14 Pin I/O Connector (optional)

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 (optional): 410 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: 103mm x 53mm x 18.5 mm
Weight: 72g
Mounting Options: adhesive or tie wrap

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

Applicable Carriers

OPTIONAL ACCESSORIES
4-Wire installation cable
Starter interrupt harness
OBDII easy install harness
I/O install harness
Advanced Integration cable, with all interfaces populated
Plug-in accessories: – 12 VDC relay with socket – 24 VDC relay with socket – Serial Interface for UART

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