ALK-1400

Waterproof 4G LTE CAT 1 Mobile Positioning Unit



The ALK-1400 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 ALK-1400 family features AL3RT GPS 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 ALK-1400 product. The data generated by the unit can be transmitted via TCP, UDP or SMS messages. The ALK-1400 family is also managed, configured and updated Over-The-Air with AL3RT GPS's new Device Management system (DMAN), which assists to improve device up-time, productivity and customer satisfaction.

Key Advantages

. Waterproof 4G LTE operations with dual cellular antennas

400 mAh backup battery

Comprehensive I/O configurations

- Driver behavior, motion, and impact reporting
- Advanced power management
- Over-The-Air device sustainability
- Adaptable JavaScript Environment
 - Cloud device management system

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 alertsv
- Optional built-in Piezo buzzer for audible alerting



AL3RT Powersports GPS

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 Protocol: FTP/HTTP/HTTPS/SMTP/POP3/TCP/ UDP/SMS

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

1Digital 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: -30° C to 80° C (connected to main power) -20° C to 60° C (running on battery)

Storage Temp: -40° C to 85° 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 AL3RT GPS contact for more details.