PUI
Positioning Universal

FJ1500

4G MOBILE POSITIONING UNIT

The FJ1500 is a professional grade under-dash fleet product with a robust set of input and outputs. The FJ1500 also features advanced capabilities such as impact / crash detection, driver behavior monitoring, driver identification, driver authentication, message logs and temperature-sensing. The unit is designed to be professionally installed.

KEY FEATURES

- 4G network connectivity with dual cellular antennas
- Full range of programmable sleep modes
- 4MB Flash to support message and crash logs
- Comprehensive I/O Configrations
- 16G 3-axis accelerometers enabling motion sensing, driver behaviour & impact/crash detection
- OTA (Over-The-Air) device management

MARKET APPLICATIONS

- ***Local Fleet Management, Maintenance and Driver Performance - Light & Heavy Duty Vehicles***
- ***Field Service / Work Order Vehicles***
- ***Transportation Logistics***
- ***New Car Lot Management***
- ***Connected Vehicles***

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SPECIFICATIONS

CELLULAR TECHNOLOGY

LTE CAT M1	Bands 2, 4, 12, 13
LTE CAT 1 (3G FALLBACK)	Bands 2, 4, 5, 12, 13, 25, 26 Bands 2, 5 (3G)
3G HSPA MULTIPBAND	Bands 800/850/900/1900/2100
GSM-GPRS	Bands 850/900/1800/1900

Throughput: Up to 10 Mbps Downlink/ 5 Mbps Uplink
Protocol: FTP/HTTP/HTTPS/SMTP/POP3/TCP/UDP/SMS

CASE

DIMENSIONS	102.4mm x 52.8mm x 20.2mm
WEIGHT	70G

ENVIRONMENT

STORAGE TEMP	-45°C to 90°C
OPERATING TEMP	-40°C to 85°C
RELATIVE HUMIDITY	Up to 90% non-condensing
IP RATING	IP51
VEHICLE TRANSIENT SURGES	ISO 7637-2 - 12/24 VDC
DROP TEST	1 meter, 6 sides
ESD	1 second pulses ±4kV direct, ±8kV indirect
VEHICLE VIBRATION	SAE J1455
MECHANICAL SHOCK	EN 60068-2-6, 27, 29
TEMPERATURE & HUMIDITY	EN 60068-2-14, 30

POWER

INPUT POWER RANGE	7-32 VDC (12/24V vehicles)
TRACKING MODE	<70mA average @ 12V
IDLE MODE	<14mA average @ 12V
NORMAL SLEEP MODE	<2mA average @12V

REGULATORY APPROVALS/CERTIFICATION

FCC, IC, CE, REACH, WEE, PTCRB, GCF (R&TTE Directive), RoHS Applicable Carriers

GPS TECHNOLOGY

LOCATION TECHNOLOGY	56 channel GPS (with SBAS)
TRACKING SENSITIVITY	-162 dBm
LOCATION ACCURACY (OPEN SKY)	+/- 2.5m (CEP)
COLD/HOT START ACQUISITION	29 seconds/1 second

ACCELEROMETER

16G MEMS 3-AXIS ACCELEROMETER

USER INTERFACE

STATUS LEDs	2 - Cellular (Amber), GPS (Green)

I/O & CONNECTORS

DIGITAL INPUTS	5 (2 fixed bias low, 3 fixed biased high)
DIGITAL OUTPUTS	3 general purpose open collector (250mA)
ANALOG INPUTS	2 internal ADC 1 external ADC input (0-60 VDC)
SERIAL INTERFACE(S)	1 Serial TTL UART Interface with power control 1-Wire Bus Interface (Dallas Semiconductor)
I/O CONNECTORS	20-Pin Molex

OPTIONAL ACCESSORIES

400mAh or 1500mAh Li-Ion Rechargeable Backup Battery
ISO-15765 Standard CAN J1939 CAN Protocol (Future)

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