

FJ2500 4G TETHERED, SEALED MOBILE POSITIONING UNIT

The **FJ2500** can be mounted anywhere on your vehicle or asset, thanks to its sealed, rugged construction. Whether you have light or heavy-duty vehicles and assets, the **FJ2500**'s wide input power range and integrated vehicle bus interface make it the right solution for extreme conditions.

KEY FEATURES

- Environmentally sealed (IP67)
- Rechargeable battery can power unit up to one year
- 3-axis accelerometer for motion detection and driver behavior monitoring
- Integrated LTE CAT M or LTE CAT 1 cellular with 3G fallback
- Optional BlueTooth and Vehicle Bus (Light Duty and Heavy Duty) and 1-Wire interfaces
- Configuration and firmware fully updateable over the air
- Input power range 6 90 VDC

MARKET APPLICATIONS

Heavy-Duty Construction **Equipment Tracking** Commercial and **Industrial Vehicles Semi-Trailer Tracking** Single-Purpose Trailers **Outdoor Generators High-Value Assets**



SPECIFICATIONS

CELLULAR TECHNOLOGY

LTE CAT M1 (2G fallback) Bands 2, 4, 12, 13

LTE CAT 1(3G fallback) Bands 1,2,4,5,12,13,19,21,25,26

Bands 2,5 (3G)

CASE

DIMENSIONS 83mm x 122.6mm x 39mm

Includes top and bottom mounting flanges, excludes

cable and connector

WEIGHT 272g

ENVIRONMENT

STORAGE TEMP -45°C to 90°C

OPERATING TEMP -40°C to 85°C while connected

to main power

-20°C to 80°C on backup battery

RELATIVE HUMIDITY Up to 90% non-condensing

IP RATING IP66K/IP67
DROP TEST 1 meter, 6 sides

VEHICLE VIBRATION SAE J1455

VEHICLE TRANSIENT SURGES

CONOLO

ESD 1-second pulses ±4kV direct, ±8kV

indirect

MECHANICAL SHOCK TEMPERATURE &

HUMIDITY

EN 60068-2-6, 27, 29

ISO 7637 - 12/24 VDC

EN60068-2-14, 30

ACCELEROMETER

16G MEMS 3-axis accelerometer

BLUETOOTH/WiFi/NFC

BLUETOOTH v4.2/5.0 BLE with internal antenna

(optional)



OPTIONAL FEATURES

Bluetooth, RS485, ModBus capable

GPS TECHNOLOGY

LOCATION 56 Channel GPS (with SBAS)
TECHNOLOGY

TRACKING -162 dBm SENSITIVITY

LOCATION ACCURACY +/- 2.5m (CEP) (OPEN SKY)

COLD/HOT START ACOUISITION

29 seconds/1 second

USER INTERFACE

STATUS LEDS 3 - Cellular (amber), GPS (green),

Bluetooth (blue)

ALERT(S) Internal audible buzzer (optional)

I/O & CONNECTORS

DIGITAL INPUTS 3-2 fixed bias low,

1 programmable bias

DIGITAL OUTPUTS 2 general purpose open

collector(200mA)

ANALOG INPUTS 1 external ADC input (0-60 VDC)

SERIAL INTERFACE(S) 1RS232 interface with power control

1-Wire bus interface (Dallas

Semiconductor)

I/O CONNECTOR(S) 8-wire captured sealed

(limited I/O options)

12-wire captured sealed (inc. Bluetooth)

POWER

BUILT-IN BATTERY 5200 mAh rechargeable Li-lon battery

INPUT POWER RANGE 6-90 VDC (12/24/48/72V vehicles)

TRACKING MODE <70mA average @ 12V IDLE MODE <14mA average @ 12V

NORMAL SLEEP MODE <250 µA average @ 12V

VEHICLE INTERFACE

ISO-15765 standard CAN, J1939 CAN protocol, CAN open option

REGULATORY APPROVALS/CERTIFICATION

FCC, IC, CE, eMark, PTCRB, GCF, SAR, RoHS compliance applicable carriers

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