PUI
Positioning Universal

FJ2050
4G OBD II PLUG-N-PLAY MOBILE POSITIONING UNIT

The FJ2050 is a professional grade OBD plug and-play product with robust vehicle Engine Control Unit (ECU) interface supporting both light duty or heavy duty vehicle interfaces. The Vehicle Communications Module (VCM) in the FJ2050 provides a full range of vehicle interface on-board library for proprietary ID protocol support.

KEY FEATURES

- 4G network connectivity

- Full range of programmable sleep modes

- Light-duty and Heavy-duty protocol support with onboard library for proprietary ID translation

- 4MB to support message logs

- Comprehensive I/O Configurations

- Multiple 16G 3-axis accelerometer options enabling motion sensing, driver behavior & impact detection

- OTA (Over-The-Air) device management

MARKET APPLICATIONS

- *Small Business Fleet Management and Maintenance*
- *Dealership Lot Management*
- *Dealership Service Retention*
- *Insurance Telematics*
- *Connected Car*

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)
LTE CAT 1 (Europe, 2G fallback)	Bands 3, 7, 20 Bands Dual 900/1800MHz
3G HSPA Multiband	Bands 1, 2, 4, 5, 8
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	64.6mm x 50.3mm x 27.3mm
WEIGHT	50g

ENVIRONMENT

STORAGE TEMP	-45°C to 90°C
OPERATING TEMP	-40°C to 85°C while connected to main power -30°C to 80°C on backup battery
RELATIVE HUMIDITY	Up to 90% non-condensing
IP RATING	IP62
DROP TESTING	1 meter, 6 sides

POWER

INPUT POWER RANGE	6-90 VDC (12/24/48/72V vehicles)
TRACKING MODE	<65mA average @ 12V
IDLE SLEEP MODE	<6mA average @ 12V
NORMAL SLEEP MODE	<2mA average @ 12V

BLUETOOTH / WIFI / NFC

v4.2/5.0 BLE with internal antenna included (optional)

REGULATORY APPROVALS/CERTIFICATION

FCC, IC, CE, eMark, PTCRB, GCF Applicable Carriers

GPS TECHNOLOGY

LOCATION TECHNOLOGY	56 Channel GPS (with SBAS), Standalone
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

VEHICLE INTERFACE

ISO-15765 Standard CAN, J1850 PWM, J1850 VPW, K Line
ISO-9141-2, SO-14230/KWP2000, Single-Wire CAN & CAN
open options

USER INTERFACE

STATUS LEDS	3 - Cellular (Amber), GPS (Green), Bluetooth (Blue)
ALERTS	Audible Buzzer, Internal (optional)

I/O & CONNECTORS

DIGITAL INPUTS	N/A
DIGITAL OUTPUTS	N/A
SERIAL INTERFACE(S)	1 UART, OBDII
I/O CONNECTORS	SAE J1962

OPTIONAL FEATURES

200 mAh rechargeable Li-Ion battery, J1939/1708 Interface
Harness, CAN Single Wire/ CAN open options

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