

FMU126

ADVANCED 3G TERMINAL

FMU126 is small and professional real-time tracking terminal with GNSS and 3G/GSM connectivity and backup battery. Device equipped with GNSS/Bluetooth and 3G modules, internal GNSS and internal 3G antennas. FMU126 feature RS232 data interface, which gives ability to connect various third-party external devices. It is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on.



Worldwide 3G network coverage



Double network reliability and multiple network selection



Bluetooth for exchanging data over short distances



RS232 serial communication interface



CAN data reading from vehicles and specialized transport



+5 V output, Magnetic card reader support



MANAGEMENT

- Informative configurator
- Multiple ways to configure
- User-friendly interface

CAPABILITIES

- Enhanced base functionalities
- Widely used functionalities
- Continuous new features

TELEMETRY

- UMTS/HSPA coverage
- Enriched I/O elements
- GNSS satellite support



Module

Name	Quectel UC15-E/UC15-A/UC15-T or Quectel UG96, TM2500
Technology	3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS/BLUETOOTH

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33/99 acquisition channels
Tracking sensitivity	-110 dBm
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	UMTS/HSPA
2G bands	UC15-E: B8/B3
	UC15-A: B5/B8/B3/B2
	UC15-T: B5/B8/B3/B2
	UG96: B5/B8/B3/B2
3G bands	UC15-E: B8/B1
	UC15-A: B5/B2
	UC15-T: B5/B1
	UG96: B6/B5/B8/B2/B1
Data transfer	UC15: HSDPA: Max. 3.6Mbps (DL) UMTS: Max. 384Kbps (DL)/Max.384Kbps (UL) GPRS: Max. 85.6Kbps (DL)/Max. 85.6Kbps (UL)
	UG96: HSUPA: Max. 5.76Mbps UMTS: Max. 384Kbps (DL)/Max.384Kbps (UL) GPRS: Max. 107Kbps (DL)/Max.85.6Kbps (UL)
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion, 3.7 V battery (0.63 Wh)

Bluetooth

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support

Physical specification

Dimensions	65 x 56,6 x 20,6 mm (L x W x H)
Weight	55 g

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months

Interface

Digital Inputs	1
Digital Outputs	2
Analog Inputs	1
CAN Adapter Inputs	1
1-Wire	1
RS232	1
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	2x SIM Card (Dual-SIM)
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), Digital LLS (RS232), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)
RS232 Modes	Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary, Magnetic card reader

