FMU130

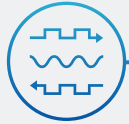## ADVANCED 3G TERMINAL WITH FLEXIBLE INPUTS CONFIGURATION

FMU130 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, 3G antennas, configurable digital, analogue inputs and digital outputs, negative input, impulse inputs. 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

Configurable DIN/AIN for flexible remote monitoring and control.

CAN data reading from vehicles and specialized transport

Allows device to work without external power source

Negative input will allow easier installation of accessories

Impulse inputs for fuel flow meters data reading
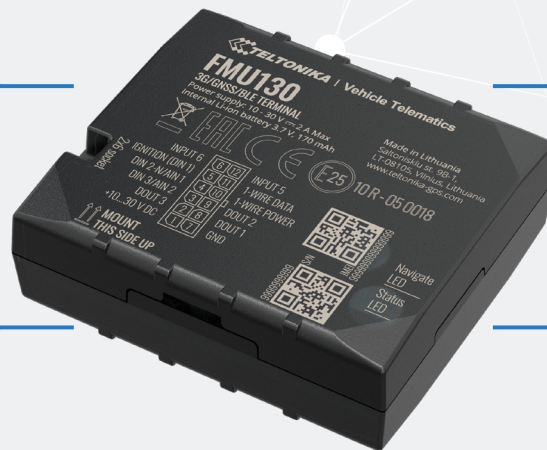
USE CASES

LIGHT VEHICLES

HEAVY DUTY TRANSPORT

TRAILER TRACKING

REFRIGERATED TRANSPORT

INTERNATIONAL LOGISTICS

CAR SHARING

2x6 socket

Status LED   Navigate LED

Module

Name	Quectel UC15-A or Quectel UG96, Teltonika 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	-165 dBM
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	UMTS/HSPA
2G bands	UC15-A: B5/B8/B3/B2 UG96: B5/B8/B3/B2
3G bands	UC15-A: B5/B2 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 battery 3.7 V (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	3
Negative Inputs	1 (Digital Input 2)
Impulse Inputs	2 (Digital Input 1, Digital Input 2)
Digital Outputs	3
Analog Inputs	2
CAN Adapter Inputs	1
1-Wire	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM + eSIM
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), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)