

FMU126

ADVANCED 3G TERMINAL FOR DLT PROJECT IN THAILAND

FMU126 is a 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 external devices and Low Energy sensors



RS232 serial communication interface



CAN data reading from vehicles and specialized transport



+5 V output, Magnetic card reader support



USE CASES



LIGHT VEHICLES



HEAVY DUTY TRANSPORT



TRAILER TRACKING



REFRIGERATED TRANSPORT



INTERNATIONAL LOGISTICS



CAR SHARING



Module

Name	Quectel UC15-T, 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
Position Accuracy	< 2,5 CEP
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s
Velocity accuracy	<0.1m/s (within +/-15% error)

Cellular

Technology	UMTS/HSPA
2G bands	UC15-T: 850/900/1800/1900MHz
3G bands	UC15-T: 850/2100MHz
Data transfer	UC15: HSDPA: Max. 3vca.6Mbps (DL) UMTS: Max. 384Kbps (DL)/Max.384Kbps (UL) GPRS: Max. 85.6Kbps (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	1200 mAh Li-Ion, 3.7 V battery (4.44 Wh)

Bluetooth

Specification	4.0 + LE
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Physical specification

Dimensions	77.30 x 63.30 x 19.20 mm (L x W x H)
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Weight	70.4 g
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Operating environment

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

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

Sensors	Accelerometer
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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
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Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
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Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
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SMS	Configuration, Events, DOUT control, Debug
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GPRS commands	Configuration, DOUT control, Debug
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Time Synchronization	GNSS, NITZ, NTP
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Fuel monitoring	LLS (Analog), Digital LLS (RS232), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
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Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)
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RS232 Modes	Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary, Magnetic card reader
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