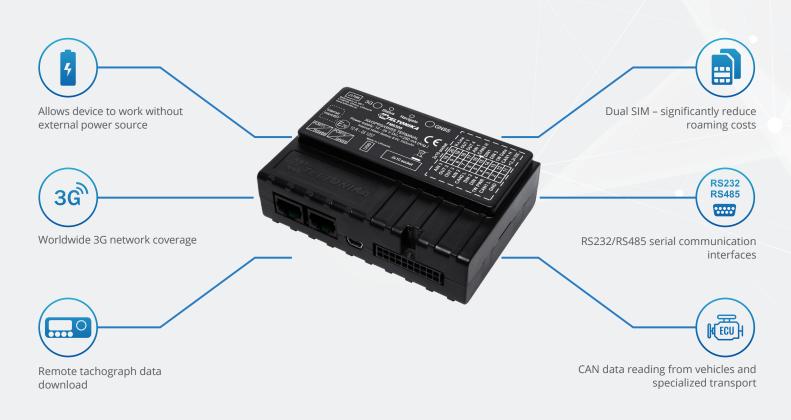# FM6300

HEAVY TRANSPORT TRACKING DEVICE ON 3G NETWORKS

Teltonika FM6300 is GNSS, 3G terminal for PROFESSIONAL applications. FM6300 is designed for complex solutions, where one device can do multiple tasks. 3G feature makes this device usable worldwide. FM6300 features like FMS CAN data (J1939), fuel CAN data (J1708), tachograph live data (K-Line), remote tachograph file download, various third party RS232 or RS485 devices support and Dual-SIM will maximize your fleet efficiency. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.

Allows device to work without external power source

Worldwide 3G network coverage

Remote tachograph data download

Dual SIM – significantly reduce roaming costs

RS232/RS485 serial communication interfaces

CAN data reading from vehicles and specialized transport

USE CASES

CONSTRUCTION AND MINING

HEAVY DUTY TRANSPORT

PUBLIC SAFETY SERVICES

REFRIGERATED TRANSPORT

INTERNATIONAL LOGISTICS

AGRICULTURE TRANSPORT

Port 1   Port 2

Mini-USB   2x10 socket

GNSS antenna socket   GSM antenna socket

Navigate LED   Status LED   J1708 port

Module

Name	Quectel UC20-G, Teltonika TG1000
Technology	GSM/GPRS/3G/GNSS

GNSS

GNSS	GPS, GLONASS, GALILEO, QZSS
Receiver	32 channel
Tracking sensitivity	-162 dBM
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	GSM/GPRS/3G/GNSS
2G bands	Quad-band 800/850/900/1900 MHz
3G bands	Quad-band 850/900/1800/1900/2100 MHz
Data transfer	GPRS data downlink/uplink up to 85.6 Kbps, UMTS data downlink/uplink up to 384 Kbps, EDGE data downlink/uplink up to 236.8 Kbps, HSPA+ data up to 5.76 Mbps uplink, HSPA+ data up to 14.4 Mbps downlink
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Back-up battery	550 mAh Ni-Mh, 8.4 V battery

Physical specification

Dimensions	104.1 x 76.8 x 31.5 mm (L x W x H)
Weight	197 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 storage temperature	-20 °C to +45°C

Interface

Digital Inputs	4
Digital Outputs	4
Analog Inputs	3
1-Wire	1
RS232	2
RS485	1
CAN J1939	2
J1708	1
K-line	1
GNSS antenna	External High Gain
GSM antenna	External High Gain
USB	2.0 Mini-USB
LED indication	2 status LED lights
SIM	2x SIM Card (Dual-SIM)
Memory	1 MB internal flash memory and external Micro SD card

Features

Sensors	Accelerometer
Scenarios	Green/Eco Driving, Over Speeding detection, Jamming detection, Excessive Idling detection, Towing detection, Crash detection, Immobilizer, iButton Read Notification, Auto Geofence, Manual Geofence, Trip detection, Odometer, Fuel counter, GNSS Unplug Detection, DDD download and Tacho online data, Offline tracking
Supported peripherals	RFID RS232, RFID 1-Wire, iButton 1-Wire, Temperature 1-Wire, Continental tire pressure measurement sensor
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), Digital LLS (RS232, RS485), LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS (J1939, J1708), Ultrasonic level sensor
Ignition detection	Digital Input, Accelerometer, External Power Voltage
RS232 Modes	Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary, TCP ASCII/Binary (Buffered), Rec to LCD, Atol Tachograph, UL202-2 Fuel Sensor, TSM232 Sattelite backup, Carrier Freezer
RS485 Modes	Silent, Log Mode, NMEA, LLS, TCP ASCII/Binary, TCP ASCII/Binary (Buffered)

Certification & Approvals

Regulatory	CE/RED, E-Mark, EAC, FCC, PTCRB, RoHS, REACH