

# FM3001

## OBD TRACKER WITH 3G AND BLUETOOTH

Teltonika FM3001 is EASY OBDII Plug and Play tracker with GNSS, 3G and Bluetooth connectivity. FM3001 is perfectly suitable for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other where simple integration is a must. FM3001 has additional feature – reading OBDII data from on-board computer. Device supports hands free, firmware and configuration update via Bluetooth. 3G feature makes this device usable worldwide.



Bluetooth for external devices and Low Energy sensors



Crash detection functionality working according accelerometer data



Allows reading CAN bus data from vehicle ECU



Worldwide 3G network coverage

## USE CASES



FLEET MANAGEMENT



DRIVER LOG-BOOK



INSURANCE TELEMATICS (UBI)



CONNECTED CAR



PREDICTIVE MAINTENANCE



RENTAL AND LEASING



**Module**

Name	Quectel UC20, Teltonika TM2500
Technology	3G/GSM/GPRS/GNSS/BLUETOOTH

**GNSS**

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	Tracking: 33/99 acquisition channels
Tracking sensitivity	-165 dBm
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

**Cellular**

Technology	UMTS/HSPA+, GSM/GPRS/EDGE
2G bands	Quad-band 850 / 900 / 1800 / 1900 MHz
3G bands	850 / 900 / 1700 / 1900 / 2100 MHz
Data transfer	HSPA+ uplink up to 5,76 Mbps, downlink up to 14.4 Mbps, UMTS uplink/downlink up to 384 Kbps, EDGE uplink/downlink up to 236.8 Kbps, GPRS and EDGE class 12
Data support	SMS (text/data)

**Power**

Input voltage range	10 - 30 V DC with overvoltage protection
Back-up battery	Li-Polymer rechargeable battery, 3.7 V, 170 mAh

**Bluetooth**

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

**Interface**

Connection	OBDII Socket
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM

**OBD Interface**

Data	K-Line, CAN bus data
Data reading	Up to 32 vehicle onboard parameters, supported OBD protocols: SAE J1850 PWM (41.6 kbaud) SAE J1850 VPW (10.4 kbaud) SAE J1939 CAN (29 bit ID, 250 kbaud). ISO 9141-2 (5 baud init, 10.4 kbaud) ISO 14230-4 KWP (5 baud init, 10.4 kbaud) ISO 14230-4 KWP (fast init, 10.4 kbaud) ISO 15765-4 CAN (11 bit ID, 250 kbaud) ISO 15765-4 CAN (11 bit ID, 500 kbaud) ISO 15765-4 CAN (29 bit ID, 250 kbaud) ISO 15765-4 CAN (29 bit ID, 500 kbaud)

**Physical specification**

Dimensions	50.7 x 49.6 x 25 mm (L x W x H)
Weight	63 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

**Features**

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, Excessive Idling detection, 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, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	OBDII
Ignition detection	Accelerometer, External Power Voltage, Engine RPM

**Certification & Approvals**

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