

FN3001 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.



Crash detection functionality working according accelerometer data

USE CASES



FLEET MANAGEMENT



DRIVER LOG-BOOK



• INSURANCE Telematics (UBI)



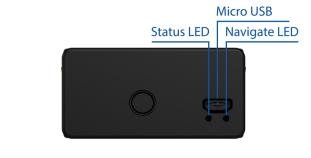
CONNECTED Car



RENTAL AND LEASING



DATASHEET // FM3001



OBDII connector



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
Accuracy	< 3 m
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
Memory	128MB internal flash memory



OBD Interface

Data	K-Line, CAN bus data
	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)
Data reading	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

