MTB100

SMART TRACKER WITH BLUETOOTH AND INTERNAL BACKUP BATTERY

Teltonika MTB100 is smart tracker with Bluetooth connectivity, internal High Gain GNSS and GSM antennas and integrated backup battery. MTB100 is designed for light vehicles and motorbike tracking in applications like rental cars, recovery of stolen cars, public safety services, delivery transport, taxi and much more. Input/output extend device usage scenarios. Digital input can be used for ignition, door or alarm button status monitoring. Vehicle remote immobilizing may be achieved using MTB100 digital output.

Bluetooth for external devices and Low Energy sensors

6-30V

External voltage range

Allows device to work without external power source

Multiple Inputs/Outputs for remote monitoring and control

USE CASES

PUBLIC SAFETY SERVICES

RECOVERY OF STOLEN CARS

TAXI

DELIVERY TRANSPORT

RENTAL CARS

Power cable

Status LED

Module

Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	Tracking: 33
Tracking sensitivity	-165 dBM
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s*

Cellular

Technology	GSM
2G bands	Quad-band 850 / 900 / 1800 / 1900 MHz
Data transfer	GPRS Multi-Slot Class 12 (up to 240 kbps), GPRS Mobile Station Class B
Data support	SMS (text/data)

Power

Input voltage range	6 - 30 V DC
Internal Back-up battery	170 mAh Li-Ion battery (0.63 Wh)

Bluetooth

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

Physical specification

Dimensions	79 x 43 x 27.5 mm (L x W x H)
Weight	69 g

*Expected time in conditions with good GNSS satellites visibility

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	IP54
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	1
Digital Outputs	1
Analog Inputs	1
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	1 status LED light
SIM	Micro-SIM
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, 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), OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)