TFT100 | CAN

EASILY ADAPTABLE HIGH-VOLTAGE E-MOBILITY & HEAVY MACHINERY GPS TRACKER

Red
+10...97 V DC
Black
GND
Yellow
1 WIRE POWER
White/Green
CAN-H
White
CAN-I
Grey
AIN2/DIN2
White/Orange
DOUT1/DIN3
Violet
DOUT2/DIN4
Green
AIN1/DIN1
Blue
1-WIRE DATA

TELTONIKA | Telematics

TFT100
GSM/GNSS TERMINAL
Power supply: 10 - 97 V ⎓ 195-30 mA avg
Internal Li-ion Battery 3.7 V, 1800 mAh
Model: TFT100-TAIB0
Made in Lithuania
Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania
www.teltonika-gps.com

ANATEL
07849-21-08591

CAN

10 R - 06 3303

Status LED

Navigate LED

DIFFERENT INTERFACES	POWER SUPPLY	MANUAL CAN & J1939	INGRESS PROTECTION	CONFIGURABLE I/O	1-WIRE DATA & POWER
CAN, RS232, RS485, UART interface support depending on chosen modification	Wide power supply voltage range for integration variety (10-97V)	Functionality support for data reading	Water and dust resistant for outdoor integrations (IP67)	Configurable analog inputs (2), digital inputs (4) and digital outputs (2)	Sensors (temperature, humidity, etc.) & authorization devices (RFID readers, iButton, etc.) connection

E-SCOOTERS   E-FORKLIFTS   E-MOPEDS   E-MOTORBIKE   E-TRUCK

Get the required data (including CAN data) from the smart machinery and send configurable commands (Manual CAN commands) in the CAN network to perform specific actions. Configure which J1939 parameters to read from the forklift, crane, or other e-transport with Manual J1939 functionality.

Support various e-scooter brand models' (Askoll, Govecs, Nuuk, FLEX, Bosch, etc.) that suits almost any sharing service business. Connect wireless Bluetooth® + LE-based external devices, like Low Energy beacons and sensors, to monitor temperature, humidity, magnet detection, and movement, increasing your management application's added value.

Monitor special types of machinery like electric forklifts, telehandlers, loaders, scissor lifts, golf carts, farm buggies, electric boats, and even coffee machines. Reduce or even eliminate costs caused by accidents, downtime, or theft, and improve your business efficiency and operational safety.

73 mm

72,5 mm

27,3 mm

Product

Model name	TFT100-TAIB0

Module

Name	Teltonika TM2500
Technology	2G(GSM/GPRS)/GNSS/BLUETOOTH® LE

GNSS

GNSS	Teltonika TM2500
Receiver	L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS*, DGPS*, AGPS*
Tracking sensitivity	33 tracking channel 99 acquisition channel
Position accuracy	-165 dBM
Velocity accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 S
Warm start	< 25 S
Cold start	< 35 s

*Optional GNSS modes available with custom firmware development, for more information contact your sales manager.

Cellular

Technology	GSM/GPRS
2G	GSM: B2/B3/B5/B8
GPRS	GPRS Mobile Station Class B
Data transfer	GSM (GPRS): Max. 85.6 Kbps (DL) / Max. 85.6 Kbps (UL)
Data support	SMS (TEXT, PDU), Network protocols (TCP,UDP,TLS,DTLS)

Power

Input voltage range	10 - 97 V DC with overvoltage protection
Back-up battery	1800 mAh Li-Ion battery 3.7 V (6.66 Wh)
Internal fuse	3.15 A, 125 V

BLUETOOTH® technology

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensors, Universal Bluetooth® LE sensor support

Power consumption

At 12V (Ultra Deep Sleep)	< 8 mA
At 12V (Deep Sleep)	< 12 mA
At 12V (Online Deep Sleep)	< 12 mA
At 12V (GPS Sleep)	< 19.5 mA
At 12V (Nominal with no load)	< 34 mA
At 12V (With full load/peak)	< 2 A Max

Physical specification

Dimensions	72.5 x 73 x 27.3 mm (L x W x H)
Weight	169 g

Operating environment

Operating temperature (without battery)	-20 °C to +75 °C
Storage temperature (without battery)	-20 °C to +75 °C
Operating temperature (with battery)	-20 °C to +60 °C
Storage temperature (with battery)	-20 °C to +45 °C
Operating humidity	5% to 95% non-condensing
Ingress protection Rating	IP67
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +70 °C
Battery storage temperature	-10 °C to +45 °C

Interface

Digital input	4
Digital output	2
Analog input	2
1-Wire Data	1
1-Wire Power	1
CAN	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM, eSIM*
Memory	128MB internal flash memory

*eSIM is available with separate PCB assembly, for more information contact your sales manager

Features

Sensors	Accelerometer
Scenarios	Eco/Green Driving, Over Speeding, Jamming, Excessive Idling, FallDown, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip/Odometer, Immobilizer, iButton, DOUT control via call, DOUT control via Ignition, Last Known Position, Timestamp Backup, Ignition ON Counter
CAN Modes	Manual CAN, Manual CAN commands, Manual J1939, Bosch, Askoll, Default J1939, FLEX, Debug
Sleep Modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, Teltonika Configurator (USB, Bluetooth® wireless technology)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage, DIN1, DIN3, DIN4, CAN

Certification & Approvals

Regulatory	CE (RED), EAC, E-Mark, Anatel, UKCA, Ukrainian UCRF, RoHS, REACH, IP67