

Product Specifications: TFT100

Features		
	Portal	Real time tracking supported by our own tracking platform
	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
	Sensors	Accelerometer
	RS485 Modes	Log Mode, NMEA, LLS, TCP ASCII/Binary
	RS232 Modes	Log Mode, NMEA, LLS, LCD, RFIH HID/MF7, Garmin FMI, TCP ASCII/Binary
	UART Modes	Log Mode, NMEA, TCP ASCII/Binary
	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

Module		
	Name	TFT100-TAIBD: Teltonika TM2500 (CAN) TFT100-TAIBB: Teltonika TM2500 (RS485) TFT100-TAIBC: Teltonika TM2500 (RS232) TFT100-TAIBD: Teltonika TM2500 (UART)
	Technology	2G(GSM/GPRS)/GNSS/BLUETOOTH® LE

GNSS		
	GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS*, DGPS*, AGPS* *Optional GNSS modes available with custom firmware development
	Receiver	33 tracking channels 99 acquisition channels

GNSS		
	Tracking sensitivity	-165 dBm
	Position Accuracy	< 2.5 m CEP
	Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
	Hot start	< 1 s
	Warm start	< 25 s
	Cold start	< 35 s

Cellular		
	Technology	GSM/GPRS
	2G bands	GSM: B2/B3/B5/B8
	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
	Internal back-up battery	1800 mAh Li-Ion battery, 3.7V (6.66Wh)
	Internal fuse	3.15 A, 125 V
	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

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

Interface		
	CAN	1
	UART	1
	RS232	1
	RS485	1

Interface		
	Connection	One modification per device: <ul style="list-style-type: none"> CAN modification (CAN-H, CAN-L) UART modification (UART-RX, UART-TX) RS232 modification (RS232-IN, RS232-OUT) RS485 modification (RS485-A, RS485-B)
	1-Wire data	1
	1-Wire power	1
	Analogue inputs / Digital inputs	2
	Digital outputs	2
	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 (available with separate PCB assembly)
	Memory	128MB Internal flash memory

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

Operating environment		
	Operating temperature (with battery)	-20 °C to +60 °C
	Storage temperature (with battery)	-20 °C to +45 °C
	Operating temperature (without battery)	-20 °C to +75 °C
	Storage temperature (without battery)	-20 °C to +75 °C
	Operating humidity	5% to 95% non-condensing
	Ingress Protection Rating	IP67

Operating environment		
	Battery charge temperature	0 °C to +45 °C
	Battery discharge temperature	-20 °C to +70 °C
	Battery storage temperature	-10 °C to +45 °C

Certification & approvals		
	Regulatory	CE/RED, EAC, E-Mark, Anatel, UKCA, Ukrainian UCRF, RoHS, REACH, E-Mark, IP67