

MEDIUS III 4G DATA SHEET 

Medius III 4G

ADVANCED LTE CAT1/4G/GNSS/BLUETOOTH TERMINAL

Model: FM130-ME3 Part Number: 52-1174

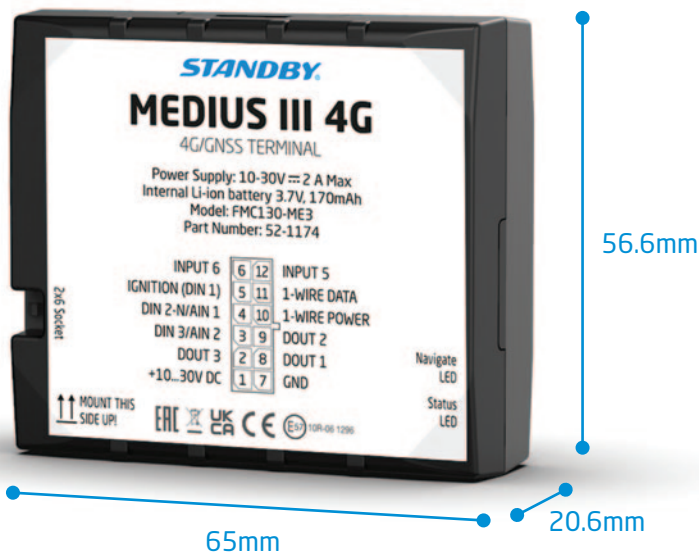
KEY FEATURES

- **4G Cat 1**
Reliable 4G (LTE Cat 1) connectivity.
- **Bluetooth Connectivity**
For low energy sensors and beacons..
- **Configurable DIN/AIN**
For flexible remote monitoring and control.
- **3 Axis Accelerometer**
For driver monitoring and crash detection.
- **Accurate Fuel Usage Control**
Impulse input for fuel flow meters data reading and precise fuel usage control.
- **CAN Adaptor Support**
Reading fuel, odometer, RPM, engine temperature and more data from light & electric vehicles, trucks, buses, and special machinery.

The Medius III is small and professional real-time tracking terminal with GNSS and LTE/GSM connectivity and backup battery. Device equipped with GNSS/Bluetooth and LTE modules, internal GNSS, LTE antennas, configurable digital, analogue inputs and digital outputs, negative input, impulse inputs. It is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on.



Dimensions



Specification

FleetMotus Medius III Tracking Device		Part Number: 52-1174
Product	Model	FMC-130-ME3
	Technology	LTE(Cat1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS/BLUETOOTH® LE
GNSS	GNSS	3A, 125V, GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
	Receiver	Tracking: 33
	Tracking sensitivity	-165 dBm
	Position accuracy	< 3.0 m
	Hot start	1 s
	Warm start	< 25 s
	Cold start	< 35 s
Cellular	Technology	LTE Cat 1, UMTS, GSM
	2G bands	B2/B3/B5/B8
	4G bands	LTE-FDD:B1/B3/B7/B8/B20/B28
		LTE-TDD:B38/B40/B41
	Data transfer	LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL)
		LTE TDD: Max 8Mbps (DL)/Max 2Mbps (UL)
		GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps (UL)
	Data support	SMS (text/data)

Specification continued

Power	Input voltage range	10 - 32 V DC with overvoltage	
	Back-up battery	170 mAh Li-Ion, 3.7 V battery (0.63 Wh)	
	Internal fuse	3 A, 125 V	
	Power consumption		At 12V < 3 mA (Ultra Deep Sleep)
			At 12V < 5 mA (Deep Sleep)
			At 12V < 16 mA (Online Deep Sleep)
			At 12V < 18 mA (GPS Sleep)
			At 12V < 33 mA (Nominal with No Load)
			At 12V < 250 mA Max. (With full Load/Peak)
Bluetooth Technology	Specification	4.0 + LE	
	Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLUETOOTH® LE sensors support	
Physical Specification	Dimensions	65 x 56.6 x 20.6 mm (L x W x H)	
	Weight	55 g	
Operating environment	Operating temperature	-20 °C to +85 °C	
	(without battery)		
	Operating temperature	-20 °C to +40 °C	
	(with battery)		
	Storage temperature	-20 °C to +85 °C	
	(without battery)		
	Storage temperature	-20 °C to +45 °C	
	(with battery)		
	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		
Interface	Digital Inputs	3	
	Negative inputs	1 (Digital Input 2)	
	Impulse inputs	2 (Digital Input 1, Digital Input 2)	
	Digital Outputs	3	
	Analog Inputs	2	
	CAN adapter inputs	1	
	1-Wire	1	
	GNSS antenna	Internal high gain	
	Cellular antenna	Internal LTE High Gain	
	USB	2.0 Micro-USB	
	LED indication	2 status LED lights	
	SIM	Micro-Sim) + eSIM	
	Memory	128 MB internal flash memory	

Specification continued

Features	Sensors	Accelerometer
	Scenarios	Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control
		Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification,
		Unplug detection, Towing detection, Crash detection, Auto Geofence,
		Manual Geofence, Trip, Ground Sense
	Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
	Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth Wireless Technology)
	SMS	Configuration, Events, DOUT control, Debug
	GPRS commands	Configuration, DOUT control, Debug
	Time synchronization	GNSS, NITZ, NTP
	Fuel monitoring	LLS (Analog), LV-CAN200, ALL-CAN300, OBDII dongle, CAN-CONTROL,
	Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM
		(CAN adapters, OBDII dongle)
	Certification & Approvals	CE-RED, UKCA, E-mark, RCM, TELEC, JATE, EAC, REACH, RoHS, CITC, IMDA,
		SIRIM QAS, ICASA, SDPPI (POSTEL), IP Rating, Anatel