









## iON FM

iON FM is an inexpensive GLONASS/GPS tracker that can be connected to various sensors and external equipment. The device supports RS-485 interface and 4 multipurpose inputs each configurable as an analog, discrete, frequency or counter input. All inputs, outputs and power supply are set on the 10-pin Microfit connector. In addition, the tracker is fitted with 2 outputs (open collector). All inputs have integrated switchable resistive pull-ups to supply voltage.

iON FM is powered from the onboard power system and features the built-in battery which allows the device to operate even with a vehicle battery switched off. The advanced power-saving mode extends the device battery-powered operation for a longer period. The built-in flash memory enables data collection if no GSM signal is detected to communicate data on a vehicle route and other data later.

### Features

- GLONASS/GPS/LBS-based positioning;
- powered from an onboard power system;
- built-in battery (battery-powered operation if no mains supply is available);
- built-in flash memory (records a position and sensor values if no GSM signal detected);
- support for connection of fuel level sensors;
- support for connection of sensors using 4 multipurpose inputs or RS485 interface;
- support for connection of external actuators and control devices using 2 outputs;
- support for remote updating of terminal firmware;
- FAKRA connectors for GPS/GLONASS and GSM antennas.

	GPS/GLONASS		BACKUP BATTERY		SUPPLY CONTROL MANAGEMENT
	CHIP-SIM (OPTIONAL)		ACCELEROMETER		USB





General Features	
Navigation receiver	GPS/GLONASS
Frequency bands	GSM/GPRS 900/1800 MHz
Antennas	external GPS/GLONASS
	external GSM antenna
Flash-memory	16 MB
SIM card	external tray or optional SIM chip (inside the housing)
Built-in accelerometer	three-axis
Indicators	3 LEDs (GSM, GPS, operating mode)
Connectors and Interfaces	
Microfit 10 connector	Device power
	RS-485 interface
	4 multipurpose inputs (analog, discrete, frequency)*
	2 outputs (open collector)*
FAKRA connector	Connection of an external GPS/Glonass antenna
FAKRA connector	Connection of an external GSM antenna
SIM card holder (inside the housing)	Standard SIM card
Micro USB connector (inside the housing)	Connection to a PC for configuration
Electrical Specifications	
Power voltage	8 to 48V
Current consumption in various modes (at 12V onboard voltage), maximum	100 mA (operating mode, the battery is charged)
	250 mA (operating mode, the battery is discharged)
	up to 10 mA (sleep mode)
Built-in battery	Li-Pol, 550 mAh
Physical Specifications	
Housing material	Plastic
Dimensions, maximum	94x74x20 mm
Weight max	90 g
Operating temperature	-30°C to +80°C

\* Total number of inputs/outputs amounts to 6.