

EC Declaration of Conformity

Declaring Organization: UAB TELTONIKA

Saltoniskiu st. 10c
LT-08105, Vilnius, Lithuania
Tel: +370 5 212 74 72
Email: info@teltonika.lt
www.teltonika.eu

Product Name: Fleet Management System
Product Model Name: FMB120, FMB122, FMB125V and FMB125I
Product Description: GNSS/GSM/BLEETOOTH tracker
Technical description of built in RF module:

Frequency range:

	Tx:	Rx:
GSM900:	880MHz - 915MHz	925MHz - 960MHz
GSM1800:	1710MHz - 1785MHz	1805MHz - 1880MHz
GPS	/	1575,42 MHz
GLONASS	/	1602,56MHz - 1615,50MHz
BT	2400 – 2483,5MHz	2400 – 2483,5 MHz

Transmitted Power: **GSM900:** 32,84 dBm + 2dBi
GSM1800: 29,75 dBm + 2dBi
BT: 4,65 dBm + 1,69dBi

Hardware Version: TM2500_01

Software Version: TM25_D_00.00.01.00

We, UAB TELTONIKA, declare under our sole responsibility that the above described product is in conformity with the relevant Community harmonisation: European Directive 2014/53/EU (RED).

The conformity with the essential requirements has been demonstrated against the following harmonized standards:

Harmonized Standard reference	Article of Directive 2014/53/EU	Test report No.
EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 + A12:2011	Health and safety - Article 3.1(a)	T223-0496/17
EN 62311:2008		RXA1706-0196EMF
draft EN 303 446-1 V1.1.0	Electromagnetic compatibility - Article 3.1(b)	T251-0829/17
EN 301 511 V9.0.2	Efficient use of radio spectrum - Article 3.2	RXA1706-0196RF03
EN 300 328 V2.1.1		RXA1706-0196RF01
EN 303 413 V1.1.1		RXA1706-0196RF02

The conformity assessment procedure referred to in Article 17 and detailed in Annex III of Directive 2014/53/EU has been followed with the involvement of the following Notified Body: SIQ Ljubljana, Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia. Notified Body No: 1304.

Thus,  is placed on the product.

Vilnius, 2017-12-04


The head of technical support department
Karolina Juciute


Project Manager
Aleksandr Krupovich



EU-Type Examination Certificate No. 1304-RED-0034

Technical Documentation: FMB1YX User Manual v0.09

Specificatii tehnice FMB 120

Part name	Physical specification
Navigation LED	LED
Modem LED	LED
Socket	Soldered inner socket
USB	Micro USB socket
GNSS	Internal GNSS antenna
GSM	Internal GSM antenna

Technical details
Power supply 10...30 V DC 2W Max Energy consumption :
FMB120 GPRS: --- average 69.16 mA r.m.s; Nominal: average 35.23 mA r.m.s; GNSS Sleep: average 19.72 mA; Deep Sleep: average 7.35 mA. Online Deep Sleep: average 10.96. mA. Ultra Deep Sleep: average 5.69. mA.
Battery charge current: --- average 140 mA; Operation temperature: -25 °C ... +55 °C. Storage temperature: -40 °C ... +70 °C. Storage relative humidity 5 ... 95 % (no condensation) Weight :
FMB120: 55g

AROBS TRACKGPS SRL

Adresa: MD-2012, mun. Chişinău, str. Alexandru cel Bun 51A
Tel: +373 22 62 28 62, Fax: +373 22 24 54 74
E-mail: sales.moldova@arobs.com

Cod fiscal: 1017600032910
VICTORIABANK S.A., SUC NR.11
Cod bancar: VICBMD2X883
Cont bancar: MD39VI022241100000623MDL

Description	Voltage	Duration
Normal operation	10-30V	Unlimited
Protection turns on, device turns off	34V	Unlimited
Maximum voltage	<70V	Unlimited
Maximum voltage impulse	90V	5 milliseconds

Internal back-up battery	Battery voltage V	Nominal capacity (mAh)	Power(Wh)	Charging temperature °C
Li-ion rechargeable battery	3.75~3.90	170	0.64 – 0.66	0 – 45

CHARACTERISTIC DESCRIPTION	VALUE	Min.	Typ.	Max.	Unit
Supply Voltage:					
Supply Voltage (Recommended Operating Conditions)	10			30	V
Digital Output (Open Drain grade):					
Drain current (Digital Output OFF)				120	μA
Drain current (Digital Output ON, Recommended Operating Conditions)			0.1	0.5	A
Static Drain-Source resistance (Digital Output ON)			400	600	mΩ
Digital Input:					
Input resistance (DIN1)	47				kΩ
Input resistance (DIN2)	47				kΩ
Input Voltage (Recommended Operating Conditions)	0			Supply voltage	V
Input Voltage threshold (DIN1)			7,5		V
Input Voltage threshold (DIN2)			2,5		V

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VALUE	Min.	Typ.	Max.	Unit
CHARACTERISTIC DESCRIPTION				
Analog Input:				
Input Voltage (Recommended Operating Conditions), Range 1	0		10	V
Input resistance, Range 1		150		kΩ
Measurement error on 12V, Range 1		0,9		%
Additional error on 12 V, Range 1		108		mV
Measurement error on 30 V, Range 1		0,33		%
Additional error on 30 V, Range 1		88		mV
Input Voltage (Recommended Operating Conditions), Range 2	0		30	V
Input resistance, Range 2		150		kΩ
Measurement error on 12V, Range 2		0,9		%
Additional error on 12 V, Range 2		108		mV
Measurement error on 30 V, Range 2		0,33		%
Additional error on 30 V, Range 2		88		mV
Output Supply Voltage 1-Wire:¹				
Supply Voltage	4,5		4,7	V
Output inner resistance		7		Ohm
Output current ($U_{out} > 3.0V$)		30		mA
Short circuit current ($U_{out} = 0$)		75		mA

VALUE	Min.	Typ.	Max.	Unit
CHARACTERISTIC DESCRIPTION				
Supply Voltage (Absolute Maximum Ratings)	-32		32	V
Drain-Source clamp threshold voltage (Absolute Maximum Ratings), ($I_{drain} = 2mA$)			36	V
Digital Input Voltage (Absolute Maximum Ratings)	-32		32	V
Analog Input Voltage (Absolute Maximum Ratings)	-32		32	V

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Navigate LED**FMB1YX navigation LED description**

Behavior	Meaning
Permanently switched on	GNSS signal is not received
Blinking every second	Normal mode, GNSS is working
Off	GNSS is turned off because: Device is not working Or Sleep mode
Blinking fast constantly	Device firmware being flashed

Status LED**FMB1YX status LED description**

Behavior	Meaning
Blinking every second	Normal mode
Blinking every 2 seconds	Sleep mode
Blinking fast for a short time	Modem activity
Off	Device is not working Or Boot mode

Semnat:

Nume: Dănilă Alina

În calitate de: Administrator

Ofertantul: **Arobs Trackgps SRL SRL**

Adresa: mun. Chișinău, str. Alexandru cel Bun nr. 51 A

Data: 18 August 2020

**AROBS TRACKGPS SRL**

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