

FMM640 Carrier

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Introduction

Usually cargo is equally as important as the vehicle itself, with temperature data you can be assured that goods which you are delivering will maintain high quality, thus Teltonika is offering ability to monitor real-time information from Carrier Freezers. The Carrier Control box/ecu is connected via RS232 port of the professional FMM6 trackers. The solution is easy to install and to configure. This allows to monitor the main information of the freezer trailer such as Temperature, Fridge door status, Alarms etc. and generate events according to your needs. For more information please refer to the installation manual below.

Supported Carrier Refrigerators

SUPPORTED CARRIER REFRIGERATORS:

VECTOR 1800 | VECTOR 1850 | VECTOR 1850 MT | VECTOR 1550

Installation guide

Installation manual for Carrier Vector 1550 can be downloaded here: 

Installation requires "[Carrier reefer cable](#)"

Configuration

Make sure FMM6 device is configured to receive data from "Carrier Reefer". To do this, enter the configurator window, select RS232 \ RS485 section displayed in the screenshot below and configure accordingly (COM1 Settings, Mode "Carrier Reefer", Baudrate: 9600)



The screenshot below displays Reefer I/O parameters section, here you can set up your device to send required parameters

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reefer

Input Name	Priority				Low Level	High Level	Event Only		Operand	
Zone1 Return Air Temperature 1	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone1 Return air temperature 2	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone1 Supply Air Temperature 1	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone1 Supply air temperature 2	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone1 Set Temperature	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone2 Supply air temperature 1	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone2 Return air temperature 1	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Zone2 Set Temperature	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Ambient Air Temperature	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Compressor Coolant Temperature	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Compressor RPM	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Compressor Config	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Battery Voltage (V * 10)	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Compressor Motor Work Minutes (HM)	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Work Minutes (HMT)	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Electric Minutes (HME)	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Door State	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Installation Serial	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Trailer Registration Number	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Error Count	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Alarm 1	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Alarm 2	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼
Alarm 3	None	Low	High	Panic	0	0	Yes	No	Monitoring	▼

[Codec 8 Extended](#) should be selected as the main data protocol in the “Protocol Settings” tab, which is located in “System” section.

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Sleep Mode

Sleep Settings

Disable	GPS Sleep
Deep Sleep	Online Deep Sleep
Timeout (min)	10

System Settings

GNSS Source	
GPS	GLONASS
Analog Input Value Range	
Range 10V	Range 30V
AIN4/DOUT4 Mode	
Ain4	DOUT4
Analog Input Value Range 3-4	
Range 10V	Range 30V
Odometer Source settings	
GPS	LVCAN
FMS	KLINE
Speed Source settings	
GPS	LVCAN
FMS	KLINE

Protocol Settings

Data Protocol

Codec 8	Codec 8 Extended
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Records Settings

Records Saving/Sending Without TS

After Position Fix	Always
After Time Sync	
Open Link Timeout (s)	30
Response Timeout (s)	30
Sort By	
Newest	Oldest
Save records to	
Internal memory	SD card
Ping mode	
Disabled	Empty Codec.12
0xFF	
Network Ping Timeout (min.)	60

Static Navigation Settings

Static Navigation

Disable	Enable
Static Navigation Deactivation Source	
Movement OR Ignition	Movement
Ignition	Movement AND Ignition

Ignition Source

Ignition Settings

Digital input 1	Digital input 2
Digital input 3	Digital input 4
Movement	Power Voltage
High Voltage (mV)	30000
Low Voltage (mV)	13200
Movement Start Delay (s)	1
Movement Stop Delay (s)	60