FMB640 Carrier

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Introduction

Usually, cargo is equally as important as the vehicle itself, with temperature data you can be assured that the goods which you are delivering will maintain high quality, thus Teltonika is offering the ability to monitor real-time information from Carrier Freezers. The Carrier Control box/ECU is connected via the RS232 port of the professional FMB6 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

The installation manual for Carrier Vector 1550 can be downloaded here: ×
Installation requires "Carrier reefer cable"

Configuration

Make sure the FMx640 device is configured to receive data from "Carrier Reefer". To do this, enter the configurator window, select the RS232 \ RS485 section displayed in the screenshot below, and configure accordingly (COM1 Settings, Mode "Carrier Reefer", Baudrate: 9600)

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

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 the "System" section.

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 |

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