

FMM650 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 FMC6 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 FMx6 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 |
|---------|------------------|

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 |