

FMC640 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 FMC6 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

Security

System

GPRS

Data Acquisition

SMS \ Call Settings

SMS Events

GSM Operators

Features

Accelerometer Features

Auto Geofence

Manual Geofence Settings

Manual Geofence Zones

Trip \ Odometer

Bluetooth

iButton List

I/O

LVCAN

FMS IO

Manual CAN IO

Tachograph Data

RS232 \ RS485

CAN \ Tachograph

ContiPressureCheck

Custom scenarios

Mobileye

Reefer IO

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.

Security

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Tachograph Data

RS232 \ RS485

CAN \ Tachograph

ContiPressureCheck

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