

# FMM650 CAN \ Tachograph

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## CAN \ Tachograph

**CAN \ Tachograph** are used to configure device when connection of CAN1 and CAN2 BUS lines are performed.

Teltonika recommendations:

- FMM650 CAN1 connected to vehicle's FMS(J1939) BUS line
- FMM650 CAN2 connected to vehicle's Tachograph - Instructions can be found on [FMM650 and Tachograph Solution](#) wiki page;

## Tachograph Settings

**In FMM650 configurator “CAN/Tachograph” section tachograph settings should be set in order to download files.**

DDD download source - to which CAN line tachograph is connected;

Tachograph ignition source - which DIN is connected to vehicle ignition ("Ignition" parameter - tachograph ignition source will be the same as configured in "System" -> "Ignition Source");

**CAN1 Bus Settings**

CAN1 bus speed (kbps) 250 ▼

CAN1 bus mode

**Silent** Normal

**CAN2 Bus Settings**

CAN2 bus speed (kbps) 250 ▼

**Tachograph Settings**

DDD download source

CAN 1	<b>CAN 2</b>
Front Panel	OFF

Tachograph ignition source

<b>Ignition</b>	DIN1
DIN2	DIN3
DIN4	

Download alternative DDD card files

**Disable** Enable

FMM650 can be wired to Tachograph using instructions provided in [FMM650 and Tachograph Solution](#) wiki page.

## WEB Tacho Settings

**WEB Tacho Settings** are used to configure Tacho WEB server to which device periodically connects.

WEB Tacho Settings:

**Status** - functionality enabling;

**Domain** - server domain where files will be send;

**Port** - server port where files will be send;

**Start delay** - delay after turning on ignition to start procedure of file sending.

**WEB Tacho Settings**

Status

**Disable** Enable

Domain

Port  ▲ ▼

Start delay (min.)  ▲ ▼

# FMS settings

FMS settings is used to configure FMS source.

If you have FMS wired to FMM650 CAN1, FMS source should be selected as CAN1.

If you have FMS wired to FMM650 CAN2, FMS source should be selected as CAN2.



## CAN Termination resistor

FMM650 has electronically controllable CAN termination resistor on CAN1 and CAN2 lines. This means that CAN line 120Ω resistance can be switched ON or OFF.



In most cases - devices in CAN communication lines have 120Ω between CAN LOW and CAN HIGH lines. When connecting two CAN devices in parallel - overall resistance becomes 60Ω which is suitable for correct CAN communication.

By default FMM650CAN Termination resistor is enabled - therefore when connecting to only one external CAN device - overall resistance will be 60Ω.

If FMM650 has to be connected to CAN line where there already are 2 main devices with 120Ω resistance - **CAN termination resistor has to be turned off** . Then overall resistance of CAN line is left unchanged at 60Ω - therefore CAN communication is uninterrupted.

