

# Garmin MFD integration

## 1. Introduction

This document explains how to connect to Garmin MFDs using an Ethernet connection. The integration technology used is called [Garmin OneHelm](#).

Make sure to also study the [Marine MFD Integration by App chapter in the manual](#).

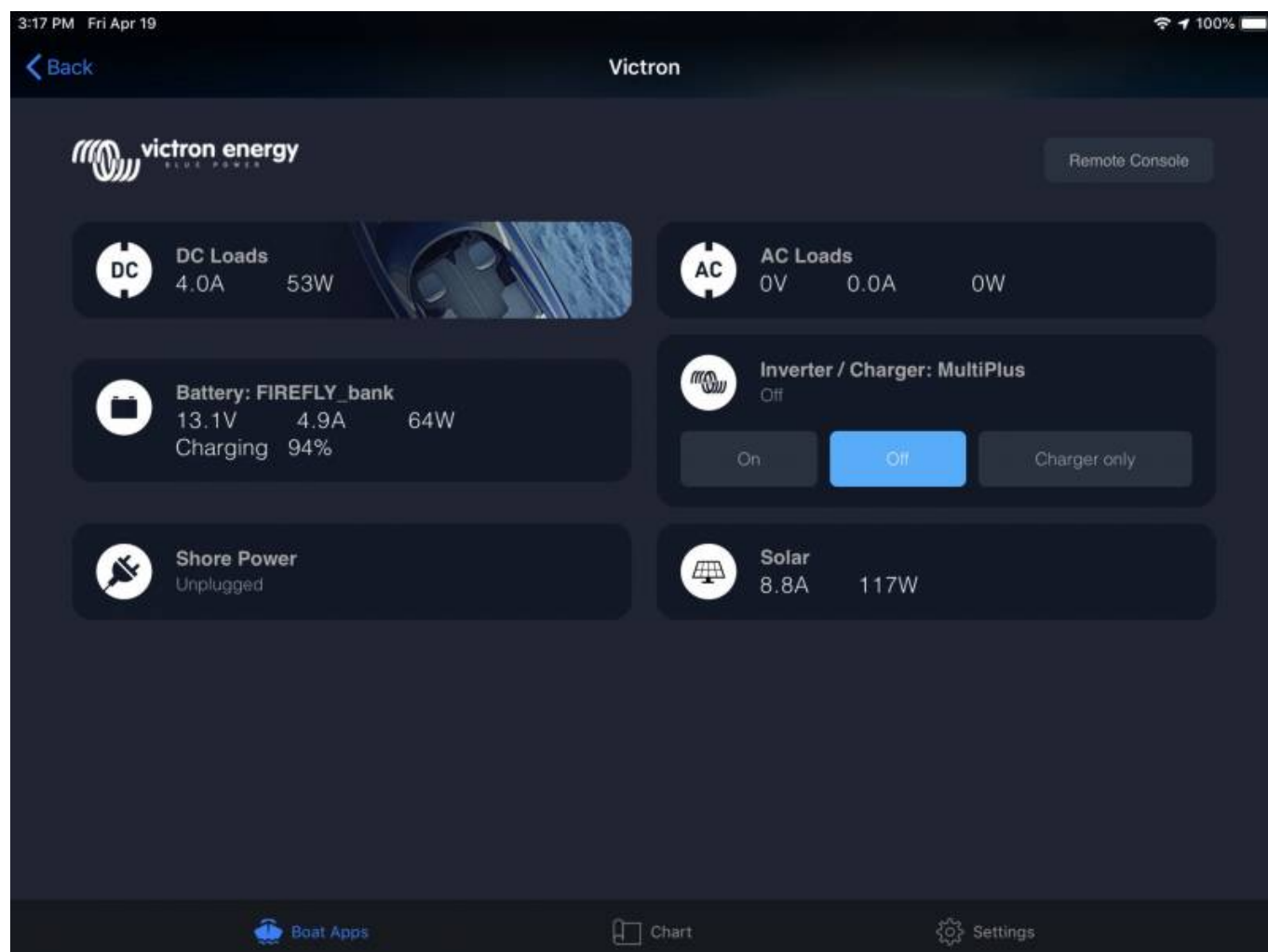
Note that there is an alternative method to connect, which is NMEA2000. See the [NMEA2000 chapter in the main manual](#).

## 2. Compatibility

OneHelm is currently available for the following models:

- GPSMAP® 8400/8600 MFD series
- GPSMAP® 722/922/1222 Plus MFD series

Also, Active Captain is supported. This screenshot shows ActiveCaptain, with the Victron App:



## 3. Wiring

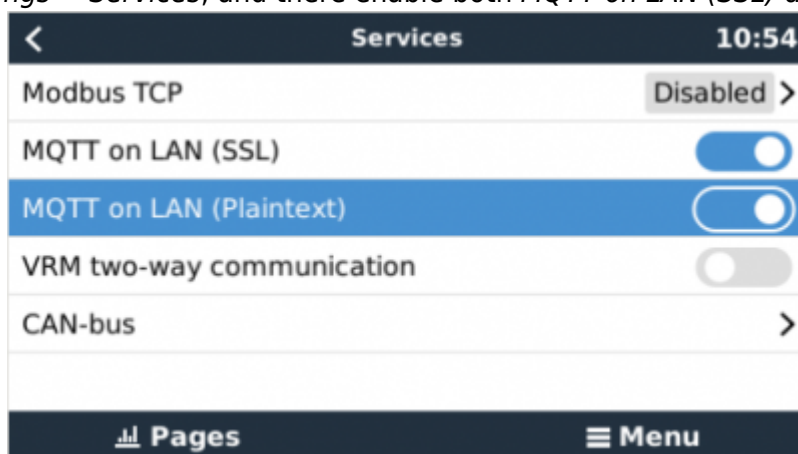
The Garmin needs to be connected to the [GX device](#) using Ethernet. Its not possible to connect over WiFi. For the ethernet connection, a Garmin adapter is required:

- Marine Network Cables - 6ft - PART NUMBER 010-10550-00
- Marine Network Cables - 20ft - PART NUMBER 010-10551-00
- Marine Network Cables - 40ft - PART NUMBER 010-10552-00
- Marine Network Cables - 500ft - PART NUMBER 010-10647-01

## 4. Configuration

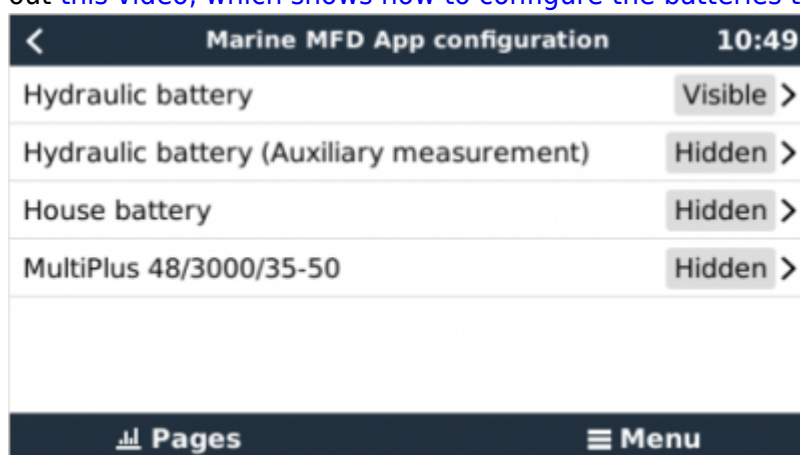
### 4.1. GX device settings

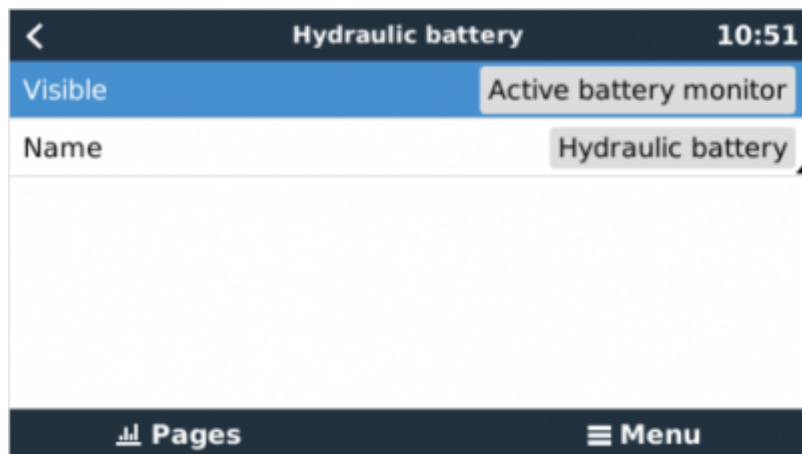
1. Go to *Settings* → *Services*, and there enable both *MQTT on LAN (SSL)* and *MQTT on LAN*



(Plaintext).

2. Go to *Settings* → *System Setup* → *Scroll to the bottom* → *Marine MFD App configuration*. And there set up what batteries you want to see on the MFD, and by what name. Make sure to check out [this video, which shows how to configure the batteries to be visible on the MFD](#).





3. For boats; and other applications with DC loads such as lighting and a Battery Monitor installed, make sure to enable the “Has DC system setting”. For more information about it; see the [GX Manual](#).

## 4.2. Networking

No special networking settings are necessary. Not on the Garmin; and not on the Victron GX Device.

The Garmin MFDs run a DHCP server; and the [GX device](#) are by default configured to use DHCP. After plugging in the cable, the Victron icon will show up after 10 to 30 seconds.

To connect the GX Device to the internet and the [VRM Portal](#), while its Ethernet port is already in use to connect to the Garmin, use either WiFi or a GX GSM. [more information](#).

## 5. Configuring Multiple Battery Monitors



### Video

## 6. Step by Step



Step 1: Connect UTP into display



Step 1: Connect UTP into display







Step 2: connect UTP cable into Victron Venus GX, Color Control GX or Octo GX



**victron energy**  
BLUE POWER



After a few seconds the Victron Energy icon appears



**victron energy**  
BLUE POWER



All information can now be viewed  
on one screen.

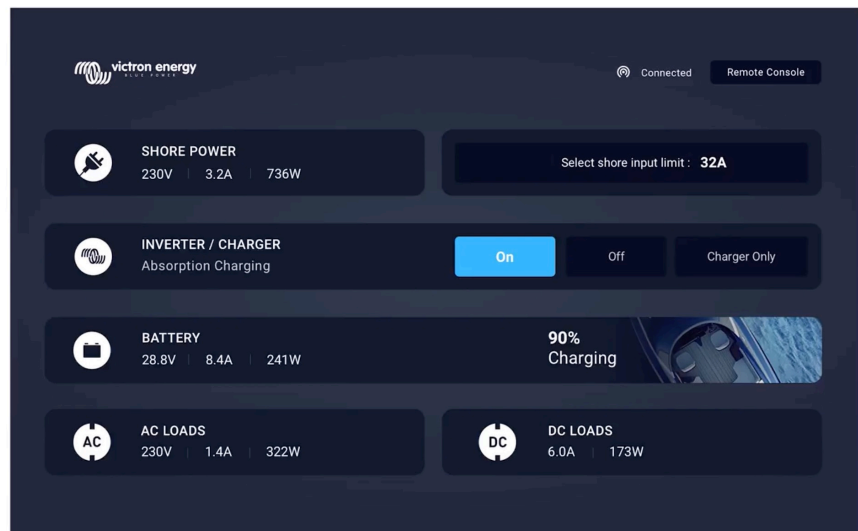


Shore power &  
generator  
information →

Inverter/charger  
information →

Battery information →

Load status →



All information can now be viewed  
on one screen.



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