

# Raymarine MFD Integration

## 1. Introduction

This document explains how to connect to Raymarine MFDs using an Ethernet connection. The integration technology used is called [LightHouse Apps](#) by Raymarine.

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

The MFD integration is compatible with the Axiom, Axiom Pro and Axiom XL MFDs running on LightHouse 3. The eS & gS Series multifunction displays which have been upgraded to LightHouse 3 are **not** compatible.

Raymarine MFDs need at least LightHouse v3.11 for compatibility, which was released in November 2019.

## 3. Wiring

The MFD needs to be connected to the [GX device](#) using ethernet. It is **not** possible to connect over Wi-Fi. For the ethernet connection, a RayNet adapter is required.

The RayNet adapters can be purchased from Raymarine:

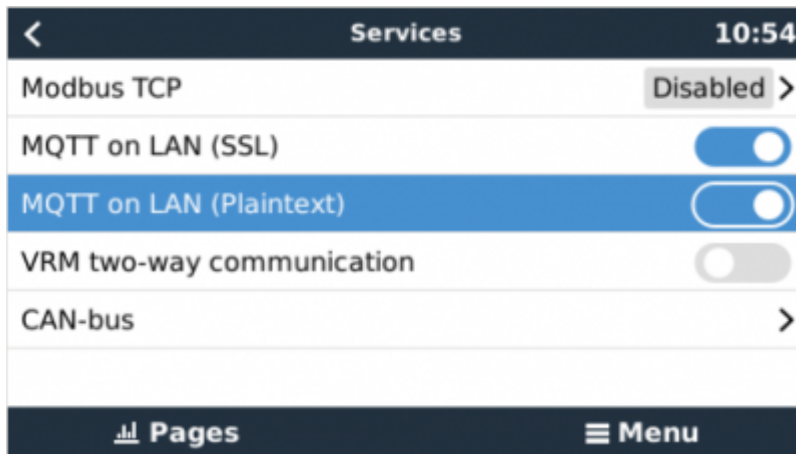
- A62360 - RayNet (F) to RJ45 (M) - 1m
- A80151 - RayNet (F) to RJ45 (M) - 3m
- A80159 - RayNet (F) to RJ45 (M) - 10m
- A80247 - RayNet (F) to RJ45 (F) Adapter
- A80513 - RayNet male to RJ45 adaptor cable

Connecting a Axiom MFD to a network router lead to IP address conflicts, due to the integrated DHCP server.

To connect the [GX device](#) to the internet as well, use WiFi

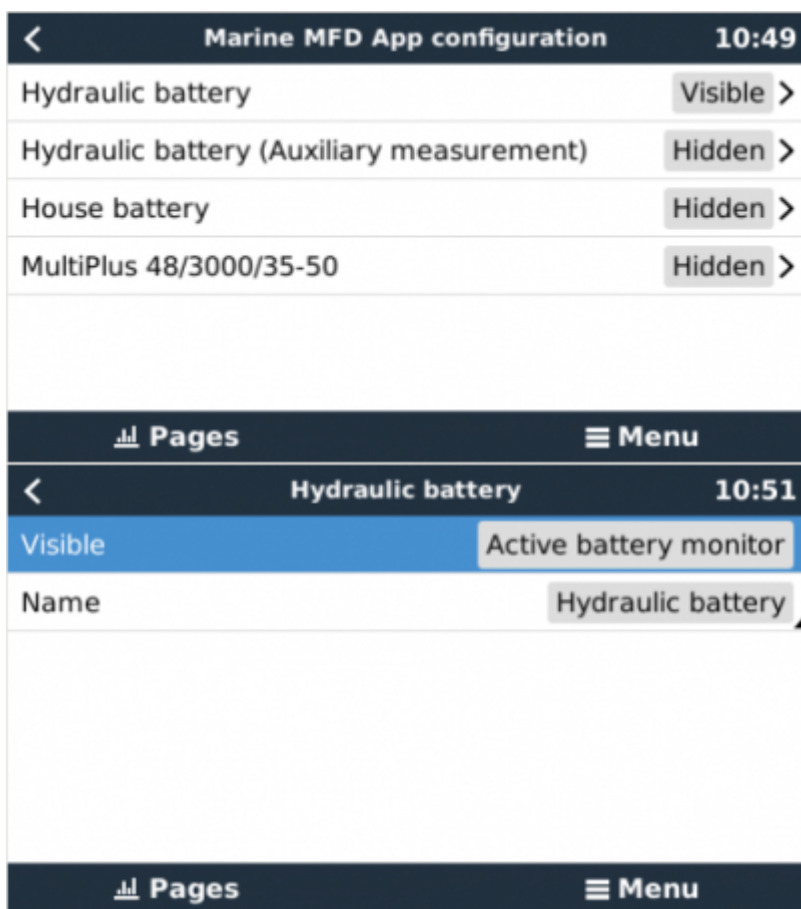
## 4. Configuration

On the Victron GX Device, go to *Settings* → *Services*, and there enable both *MQTT on LAN (SSL)* and



MQTT on LAN (Plaintext).

Next, 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.



No other settings, such as IP addresses or similar are required, since the Axiom MFDs have an integrated DHCP server.

## 5. Configuring Multiple Battery Measurements

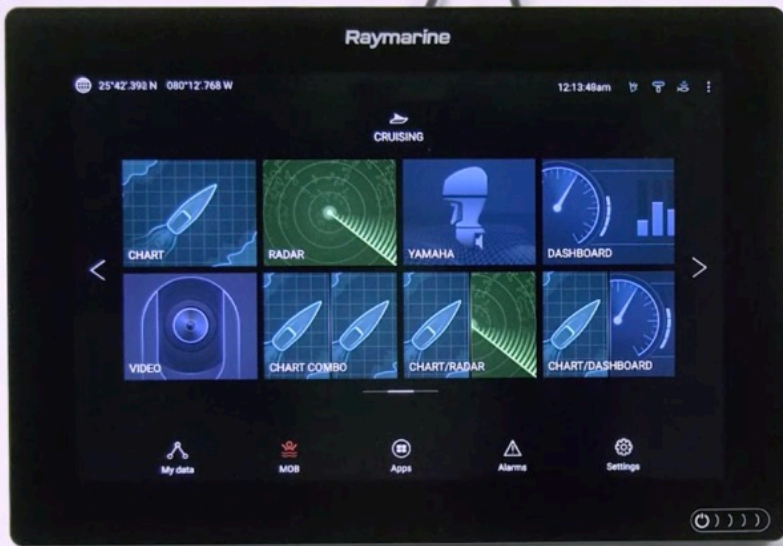
This video explains how to setup multiple battery measurements, and naming them.



# Video

## 6. Step by Step





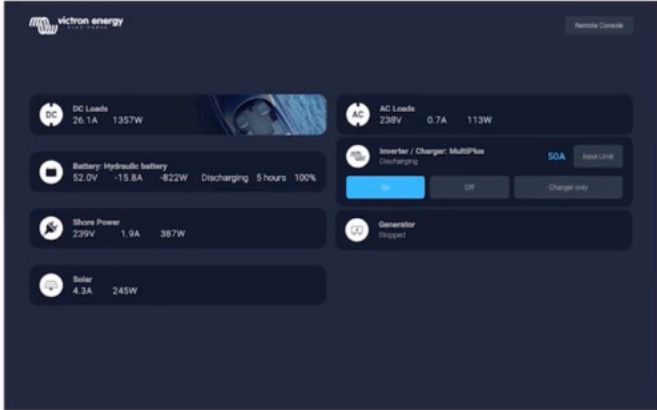
Step 2: Connect RJ45 into Victron Venus GX, Color Control GX or Octo GX.



Then go to Apps and select the Victron logo.







DC Loads →

Battery information →

Shore Power →

Solar →

← AC Loads

← Inverter Control

← Generator

Category	Value 1	Value 2
DC Loads	26.1A	1357W
Battery (Hydraulic battery)	52.0V	-15.6A -822W Discharging 5 hours 100%
Shore Power	239V	1.9A 387W
Solar	4.3A	245W
AC Loads	230V	0.7A 113W
Inverter / Charger (MultiPlus)	50A	Charging only
Generator	Stopped	

All information can now be viewed on one screen.



## Video

From: <https://www.victronenergy.com/live/> - **Victron Energy**

Permanent link: <https://www.victronenergy.com/live/venus-os:mfd-raymarine?rev=1591889426>

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