



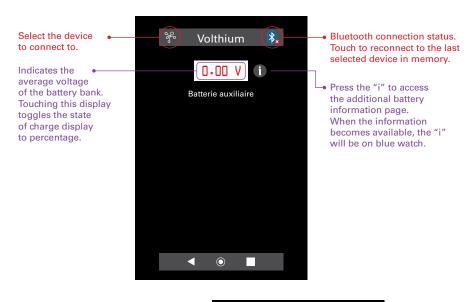
VOLTHIUM MONITOR - BLUETOOTH APPLICATION

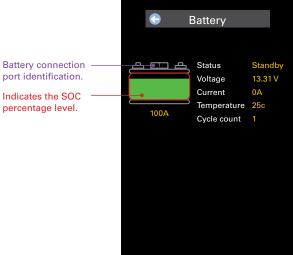
Volthium Monitor is the new generation application for your Volthium communication modules. Entirely made in Montréal (Québec), Canada. Download the application here:

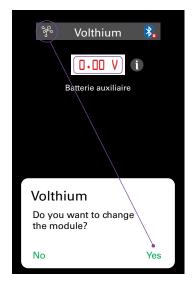




DESCRIPTION OF THE FEATURES AND CONNECTION









DESCRIPTION OF THE DIFFERENT MODULES

1. Bluetooth dongle:

Has a total of 3x RJ45 female ports and a DC input port:

- The DC port (green) is used for the power supply. The accepted voltage is in the range of 10V to 59V.
- The RJ45 port, on the same side as the DC connector, is used in case only one battery is to be monitored with the Bluetooth module.

Do not connect a battery to this port if the Bluetooth module is used with the "Communication HUB" module.

- Series of 2 RJ45 ports (Daisy-Chain CAN)
 - They are used to interconnect Volthium boxes on the CAN network.
 For example; The "Communication HUB" box, which would be used to connect a battery bank (energy bank).
 - Could also be used to connect the "Closing Loop", which is a small black RJ45 connector.

2. Communication HUB:

Has a total of 6 RJ45 female ports:

- Series of 4x RJ45 female ports on one side:
 - For battery reading only.
- Series of 2 RJ45 ports (Daisy-Chain CAN)
 - They are used to interconnect Volthium boxes on the CAN network
 - For example; The "Bluetooth Dongle" box, or the "Power Supply" box.
 - They are also used to connect to an external device on the CAN bus, such as Victron VE.CAN
 - Used to connect the "Closing Loop", which is a small black RJ45 connector.

3. Power Supply Module

Has a total of 2x RJ45 female ports and a DC input port.

- The DC port is used for the power supply. The accepted voltage is in the range of 10V to 59V.
- Series of 2 RJ45 ports (Daisy-Chain CAN)
 - They are used to interconnect Volthium boxes on the CAN network
 For example; The "Communication HUB" box, or the "Bluetooth Dongle" box.
 - Use to connect the "Closing Loop", which is a small black RJ45 connector.

GENERAL NOTE

We call a "Network", the set of Volthium modules interconnected between them.

In a network of Volthium modules, a Closing Loop terminator RJ45 must be installed in one of the CAN ports ("Daisy-Chain"). The selection of the port is not important, in fact any CAN port of any module can be used to receive the RJ45 Closing Loop Terminator.

EXAMPLE OF BLUETOOTH CONNECTION: 2X VOLTHIUM BATTERIES 12V100AH.

You will need to order the combo: Bluetooth Module & HUB.

In addition, you will need to order 1 XLR-RJ45 cable (male) in EXTRA on the website.

In the delivery you will get:

- 1. Bluetooth dongle module, including
 - Bluetooth module
 - DC cable
 - 1x 6-inch flat RJ45 cable
 - 1x XLR RJ45 male cable
- 2. Communication HUB module
 - HUB Module
 - 1x 6-inch flat RJ45 cable
 - RJ45 VE.CAN 6 feet cable
 - Closing Loop terminator

BLUETOOTH CONNECTION: 2X VOLTHIUM 12V100AH BATTERIES

Instructions

- 1. Connect the 2 batteries, from their XLR connector to the HUB module, for each battery. Make sure to plug them into ports 1-2 of the HUB module.
- 2. Interconnect, via the CAN Daisy-CHAIN port, the HUB module box to the CAN Daisy-CHAIN port of the Bluetooth module using the flat black RJ45 cable.
- 3. Connect the closing loop terminator to one of the CAN ports (this can be on the HUB module, or on the Bluetooth module).
- 4. Connect the power supply with the DC cable from the batteries to the Bluetooth module.
- 5. Download the application for your mobile: Volthium Monitor

BLUETOOTH CONNECTION: 1X VOLTHIUM BATTERY 12V 200AH YELLOW

Instructions

- 1. Connect the battery via its RJ45 port (any of the 2, not important) to the HUB module using a standard RJ45 cable (you can use the flat black 6" cable provided with the Bluetooth module).
- 2. Connect the power supply with the DC cable from the batteries to the Bluetooth module.
- 3. Download the application for your mobile:

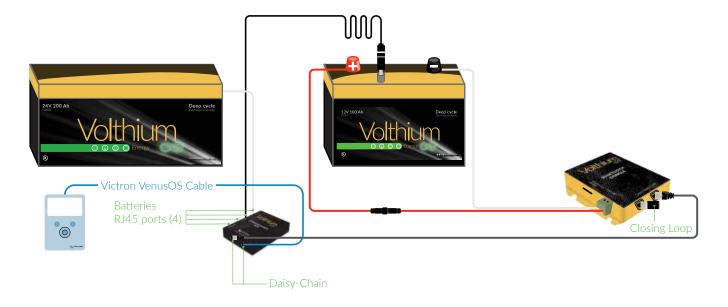


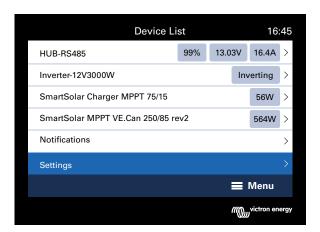
BLUETOOTH CONNECTION + VICTRON: 2X VOLTHIUM 12V100AH BATTERIES.

Instructions

- 1. Connect the 2 batteries from their XLR connector to the HUB module using the XLR-RJ45 cable for each battery. Make sure to plug them into ports 1-2 of the HUB module.
- 2. Interconnect, via the CAN Daisy-CHAIN port, the HUB module box to the CAN Daisy-CHAIN port of the Bluetooth module using the flat black RJ45 cable.
- 3. Connect the closing loop terminator to one of the CAN ports (this can be on the HUB module, or on the Bluetooth module).
- 4. Connect the power supply with the DC cable from the batteries to the Bluetooth module.
- 5. Use the 6' RJ45 CAN cable to connect one of the CAN ports, either from the Bluetooth box or from the HUB box, to the BMS-CAN (or VE.CAN port set to 500kb/s) of your Victron hardware.
 - Also make sure to close the victron CAN bus circuit with the blue RJ45 connector provided by Victron.
 - Note that the 6 foot RJ45 CAN flat cable has an identification. It just works in the direction expressed by the identification.
- 6. Download the application for your mobile:
 - Volthium Monitor

DATA SHOWN IN VENUSOS





Be sure to set the CAN port in VenusOS to "BMS-CAN" 500kb/s