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GX product range

Introduction

GX products are Victron's state-of-the-art monitoring solution. The family consists of the different Venus-device models, and their accessories.

The Venus-device lies at the heart of the system - providing monitoring, and operating as the communication-centre of your installation. All the other system-components - such as inverter/chargers, solar chargers, and batteries - are connected to it. The Venus-device ensures that they all work in harmony. Monitoring can be carried out locally ...or remotely - via our free-to-use Victron Remote Management portal (VRM). The Venus device also provides Remote firmware updates and even allows the settings to be Changed Remotely.

The Venus devices are:

- Color Control GX
- Venus GX
- Octo GX The Octo GX is particularly suited to installations which have many MPPT Solar Chargers, as it has 10 VE.Direct ports
- The CANvu GX is best for harsh environments when its IP67 rating is a must.

Available accessories

- GX GSM A cellular modem. It connects to Venus-device via USB, and takes a simcard
- WiFi USB sticks
- Energy Meters Measures PV Inverter Output where PV Inverters cannot be read-out directly. Also used as a grid meter in an Energy Storage System (ESS).
- VE.Can resistive tank sender adapter Allows a standard resistive tank-level sender to be connected to the Venus-device.

Comparison table

User interface	CCGX	Venus GX	Octo GX	CANvu GX		
Appearance	victron energy	Venus GX	Octo GX	9610 COTTO		
Display	LCD Display & 7 buttons	no display	no display	4.3" touch-screen		
Remote Console	yes					
Buzzer	yes	yes	no	yes		
Documentation	CCGX	Venus GX	Octo GX	CANvu GX		
Manual	CCGX manual	VGX manual	OGX manual	CANvu manual		

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<u>User interface</u>	CCGX	Venus GX	Octo GX	CANvu GX		
Product detail page	CCGX product	VGX product	OGX product	CANvu product		
Victron comm. ports	CCGX	Venus GX	Octo GX	CANvu GX ⁽¹²⁾		
VE.Direct ports	2	(1)	10 (1)	3 (1)		
VE.Can	2 paralleled RJ45 sockets - isolated					
VE.Bus	2 paralleled RJ45 sockets - isolated					
Non Victron-products	CCGX	Venus GX	Octo GX	CANvu GX		
Canbus-BMS batteries	Many battery brands. See here for details					
Fronius PV Inverters	See here for details					
SMA PV Inverters	See here for details					
<u>Communication</u>	CCGX	Venus GX	Octo GX	CANvu GX		
USB	2 USB Host ports - not isolated 1 USB Host po		t - not isolated			
Ethernet	10/100 RJ45 socket - isolated except shield			1 port. isolation? ⁽¹²⁾		
WiFi	optional ⁽²⁾	built-in, but see (3)	built-in, external antenna (11)	optional ⁽²⁾		
Bluetooth Smart	no					
Micro SDcard slot	SDHC c	no				
Second CAN-bus port	no	yes - non-isolated	yes - non-isolated	yes - non-isolated		
RS485	no	no	yes - non-isolated	no		
<u>IO</u>	CCGX	Venus GX	Octo GX	CANvu GX ⁽¹²⁾		
Programmable relay (7)	1x NO	1x NO / NC (8)	1x NO / NC			
Resistive tank level inputs	no	3 (9)	no			
Temperature measurements	no	2 (10)	no			
Digital Inputs	no	5	3	1		
<u>Other</u>	CCGX	Venus GX	Octo GX	CANvu GX		
Supply voltage	8 - 70 VDC 8 - 32 VDC					
Mounting	Panel Integration	Wall mounting	DIN Rail (35mm)	Panel		
Outer dimensions (h x w x d)	130 x 120 x 28 mm	45 x 143 x 96 mm	61 x 108 x 90 mm	?		
Operating temperature	-20 to +50°C			?		
Battery backupped clock	yes			no		
<u>Standards</u>	CCGX	Venus GX	Octo GX	CANvu GX		
Safety	EN 60950		?	?		
EMC	EN 61000-6-3, EN 55014-1, EN 61000-6-2, EN 61000-6-1, EN 55014-2					
Automotive	E4-10R-053535	In progress	?	?		

Notes

- 1. The maximum number of VE.Direct devices which can be attached to a CCGX is 5 (2 direct, and 3 via USB); on a Venus GX the number is 6 (2 direct and 4 via USB); on an Octo GX it is 10 (all attached directly). VE.Direct ports on a Venus-device are isolated.
- 2. Though the CCGX has no built-in WiFi that functionality can easily be added by attaching a USB-WiFi dongle. See CCGX Manual, section 1.4.2 for details.
- 3. The built-in WiFi in the Venus GX has a very low signal strength unfortunately. It is strong

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enough to connect to a phone, tablet or laptop in order to access setup and monitoring. But to connect the Venus GX to the internet either use the built-in Ethernet port or add a USB-WiFi dongle. See CCGX Manual, section 1.4.2 for details. Make sure the Venus GX is running v2.06 or later - early shipments of Venus GX units ran v2.05.

- 4. The hardware of the Venus GX and Octo GX includes a built-in Bluetooth Smart chipset which hasn't proved satisfactory. Bluetooth Smart for Venus-devices is coming soon but will not use built-in chipsets.
- 5. Larger SD memory cards (SDXC) are not supported. SD cards can be used for two purposes:
 - 1. Logging data, see this section in the ccgx manual for details.
 - 2. Updating firmware, see this section in the ccgx manual for detials.
- 6. The second CANbus port is accessible via the GND, CAN-H and CAN-L terminals. Note that the port is not Isolated. See Settings → Services for configuring that port.
- 7. The programmable relay can be set to act as an alarm relay, automatic genset start stop, or an on/off switch, and is controlled via the GUI and/or ModbusTCP.
- 8. In the Venus GX hardware there are two relays at present only one of them is available for use.
- 9. The tank level inputs are resistive and should be connected to a resistive tank sender. Victron does not supply tank senders. The tank level ports can each be configured to work with either European (0 180 Ohm); or US tank senders (240 30 Ohm).
- 10. The Venus GX has two temperature terminals which can be used to measure & monitor all kinds of temperature-inputs. Temperature senders are not included. The required sensor is ASS00001000 Temperature Sensor QUA/PMP/Venus GX. (Note that this is <u>not</u> the same as the BMV temperature accessory.)
- 11. Octo GX comes with a small Wifi antenna. You may remove and replace it with any other Wifi antenna having an RP-SMA connector.
- 12. Requires the CANvu GX IO Extender and wiring kit

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