victron energy
BLUE POWER   (/live/start)

Victron GX product range

Introduction

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

The GX-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. Monitoring can be carried out locally and remotely - via our free-to-use Victron Remote Management portal (VRM [https://vrm.victronenergy.com]). The GX-device also provides Remote firmware updates (/live/vrm_portal:remote-firmware-update) and allows inverter/charger settings to be changed remotely (/live/vrm_portal:remote-veconfigure).

The GX Family consists of these models:

- Cerbo GX [https://nocache.victronenergy.com/panel-systems-remote-monitoring/cerbo-gx] - Our newly released GX product.
- Color Control GX [https://www.victronenergy.com/panel-systems-remote-monitoring/color-control] - Our first released GX product, the CCGX has a display and buttons.
- Venus GX [https://www.victronenergy.com/panel-systems-remote-monitoring/venus-gx] - The Venus GX has more analog and digital IO, no LCD and is more cost effective than the CCGX.
- CANvu GX [https://www.victronenergy.com/panel-systems-remote-monitoring/canvu-gx] - The CANvu GX is best for harsh environments - when its IP67 rating and touch LCD is a must.
- Octo GX [https://www.victronenergy.com/panel-systems-remote-monitoring/octo-gx] - The Octo GX is particularly suited to medium size installations which have many MPPT Solar Chargers, as it has 10 VE.Direct ports.
- Maxi GX [https://www.victronenergy.com/panel-systems-remote-monitoring/maxi%20gx] - Compared to the other GX devices, the Maxi GX has most CPU power and most VE.Direct ports: 25. This is the GX device to use for large systems with many VE.Direct MPPT Solar Chargers.

Lastly, there is a GX device built into our MultiPlus-II GX and EasySolar-II GX Inverter/chargers.

Available accessories

- GX Touch 50 [https://nocache.victronenergy.com/panel-systems-remote-monitoring/gx-touch-50] - Touch screen display accessory for the Cerbo GX
- GX GSM [https://www.victronenergy.com/accessories/gx-gsm] - A cellular modem. It connects to GX device via USB, and takes a simcard
- WiFi USB sticks [https://www.victronenergy.com/live/ccgx:start#internet_connectivity]
- Energy Meters (/live/energy-meters:start) - Measures PV Inverter Output where PV Inverters cannot be read-out directly. Also used as a grid meter in an Energy Storage System (ESS) (/live/ess:start).
- VE.Can resistive tank sender adapter [https://www.victronenergy.com/accessories/ve-can-resistive-tank-sender-adapter] Allows a standard resistive tank-level sender to be connected to the GX device.

Comparison table

User interface	Cerbo GX	CCGX	Venus GX	Octo GX	CANvu GX	Maxi GX	MultiPlus-II GX and EasySolar-II GX
Appearance	(/live/_media/venus-os:cerbo_gx.png)	(/live/_media/ccgx:ccgx_product.png)	(/live/_media/ccgx:venusgx_product.png)	(/live/_media/ccgx:octogx_product.png)	(/live/_media/ccgx:canvu_product.png)	(/live/_media/venus-os:maxigx.jpg)	(/live/_media/ccgx:multiplus-ii-gx.jpg)
Display	GX Touch 50 [https://www.victronenergy.com/panel-systems-remote-monitoring/gx-touch-50] optional touch display [16]	LCD Display & 7 buttons	no display	no display	4.3" touch-screen	2×16 character display	
Remote Console	yes						
Buzzer	yes	yes	yes	no	yes	no	
Documentation	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**

User interface	Cerbo GX	CCGX	Venus GX	Octo GX	CANvu GX	Maxi GX	MultiPlus-II GX and EasySolar-II GX
Manual	Cerbo GX manual [https://www.victronenergy.com/panel-systems-remote-monitoring/cerbo-gx#manual]	CCGX manual (/live/ccgx:start)	VGX manual (/live/venus-gx:start)	OGX manual (/live/venus-os:octo-gx)	CANvu manual (/live/venus-os:canvu-gx)	Maxi GX manual [https://docs.victronenergy.com/gx/maxi-gx.html]	MultiPlus-II GX manual [https://ve3.nl/multiplus-ii-gx]
Product detail page	page [https://nocache.victronenergy.com/panel-systems-remote-monitoring/cerbo-gx]	page [https://www.victronenergy.com/panel-systems-remote-monitoring/color-control]	page [https://www.victronenergy.com/panel-systems-remote-monitoring/venus-gx]	page [https://www.victronenergy.com/panel-systems-remote-monitoring/octo-gx]	page [https://www.victronenergy.com/accessories/canvu-gx]	page [https://www.victronenergy.com/panel-systems-remote-monitoring/maxi%20gx]	page [https://www.victronenergy.com/inverters-chargers/multiplus-ii%20gx]
Victron comm. ports	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX[12]**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**
VE.Direct ports (always isolated)	3 [1]	2 [1]		10 [1]	3 [1]	25	1
VE.Bus (always isolated)	2 paralleled RJ45 sockets					1 RJ45 socket	2 paralleled RJ45 sockets
VE.Can	yes - non isolated	2 paralleled RJ45 sockets – isolated				no [14]	
Communication	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**
USB	3 USB Host ports	2 USB Host ports		1 USB Host port			
Ethernet	10/100 RJ45 socket - isolated except shield				1 port. isolation?[12]	10/100 RJ45 socket	
WiFi	built-in	optional [2]	built-in, but see [3]	built-in, external antenna [11]	optional [2]	no	built-in
Bluetooth Smart	yes [17]	no					
Micro SDcard slot	SDHC cards up to max. of 32GB. [5]				no	yes	no
Second CAN-bus port (also features BMS-Can [18])	no	no	yes - non-isolated	yes - non-isolated	no	no	no
BMS-Can port [15]	yes	no				yes [14]	
Built-in RS485	no	no	no	yes - non-isolated	no		no
IO	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX[12]**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**
Programmable relay [7]	2 x NO/NC [8]	1 x NO	1 x NO/NC [8]	1x NO / NC		2x NO / NC [8]	n/a
Resistive tank level inputs	4 [9]	no	3 [9]	no			
Temperature sense inputs	4 [9]	no	2 [10]	no			
Digital Inputs	4	no	5	3	1	4	no
Third party compatibility	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**
Canbus-BMS batteries	Many battery brands. See here (/live/battery_compatibility:start) for details						
Fronius PV Inverters	See here (/live/ccgx:ccgx_fronius) for details						
SMA PV Inverters	See here (/live/ccgx:ccgx_sma) for details						
ABB PV Inverters	See here (/live/ccgx:abb) for details						
SolarEdge PV Inverters	See here (/live/venus-os:gx_solaredge) for details						
Marine MFD App Support	Generic MFD Manual [https://www.victronenergy.com/live/ccgx:start#marine_mfd_integration_by_app], Navico [https://www.victronenergy.com/live/venus-os:mfd-navico], Garmin [https://www.victronenergy.com/live/venus-os:mfd-garmin], Raymarine [https://www.victronenergy.com/live/venus-os:mfd-raymarine]						
Performance	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**
CPU	dual core	single core				quad core	
RAM	1GB	256MB	512MB	512MB	256MB	512MB	512MB
Max. VE.Direct devices [1]	tbd - 15 orso	5	6	10	4	25	25
Other	**Cerbo GX**	**CCGX**	**Venus GX**	**Octo GX**	**CANvu GX**	**Maxi GX**	**MultiPlus-II GX and EasySolar-II GX**
Supply voltage	8 - 70 VDC				8 - 32 VDC	32 - 70 VDC	powered internally, no external supply