Nucleo GX

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Nucleo GX – top view



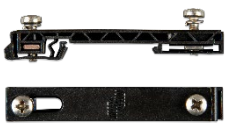
Nucleo GX – front view



Nucleo GX – rear view



Accessories included with the Nucleo GX



Optional accessory: DIN35 Rail adapter

Nucleo GX: communication-centre

The Nucleo GX is a compact, high-performance communication centre for monitoring and controlling your Victron system. It offers fast system response, reliable connectivity, and flexible expansion via USB accessories. Ideal for VE.Can-based installations such as RS systems, it provides full GX functionality with simple setup and seamless remote access through VRM, LAN, or WiFi.
Additional functionality such as VE.Bus connectivity, relays, or analogue inputs can easily be added via optional USB accessories: the MK3-USB interface, GX I/O Extender 150, or GX Tank 140.
Although the Nucleo GX has no HDMI port, an Android GX WiFi Display can be used for local display and control. System access is also available through VictronConnect, a web browser, or VRM.

Compact and high-performance GX platform

Equipped with a quad-core processor, the Nucleo GX delivers fast and reliable system performance in a compact design. It supports up to 25 connected devices via VE.Direct and USB, and even more via VE.Can, ensuring smooth data handling and responsive control in any installation.

Remote Console on VRM

Monitor, control, and configure the Nucleo GX remotely, just as if you were standing in front of it, using Remote Console on VRM. The same functionality is available locally via LAN or through the built-in WiFi Access Point.

Perfect monitoring & control

Monitor real-time system information such as battery state of charge, power consumption, and power harvest from PV, generator, or mains. Easily start or stop generators automatically, adjust key system settings, and track performance trends. Stay informed with alerts, run diagnostics, and resolve issues remotely through VRM or the local network.

Simple mounting and configuration

The Nucleo GX is easy to install on a wall or with the optional DIN35 DIN-rail adapter. Built-in Bluetooth enables quick setup and configuration using the VictronConnect app.

Nucleo GX [1]	BPP900455050
Supply voltage	8 – 70 V DC
Communication ports	
VE.Direct ports (always isolated)	2 (max. possible VE.Direct devices: 25) [3]
VE.Can 1	Yes - isolated
VE.Can 2	Yes – non-isolated
Ethernet	Yes
WiFi	Yes
Bluetooth Smart	Yes [2]
USB Host ports	Yes – 3 x USB-A (max. 1,5 A @ 5 V combined)
MicroSD Card Slot	Yes – SDHC cards up to max. 32GB
Remote Console Access	
Access Methods	Android GX WiFi Display VictronConnect App Web Browser
Dimensions	
Outer dimensions (h x w x d)	78 x 154 x 48 mm | 3,07 × 6,06 × 1,89 in (without connectors and mounting accessories)
Operating temperature range	-20 to +50 °C
Other	
Mounting	Wall or DIN rail (35 mm)[2]
Buzzer	Yes
Button	Yes (Network reset)
LEDs	2 (Bluetooth status / WiFi Access Point)
Protection category	IP20
Standards	
Safety	IEC 62368-1
EMC	EN 301489-1, EN 301489-17
Automotive	ECE R10-6

Notes

1. For more detailed information about the Nucleo GX, please visit the Victron GX product range page.
2. Bluetooth functionality is intended to be used to assist with initial connection and networking configuration. You cannot use Bluetooth to connect to other Victron products (e.g. SmartSolar charge controllers).
3. The listed maximum in above table is the total connected VE.Direct devices such as MPPT Solar Charge controllers. Total means all directly connected devices plus the devices connected over USB. The limit is mostly bound by CPU processing power. Note that there is also a limit to the other type of devices of which often multiple are connected: PV Inverters. Up to three or four three phase inverters can typically be monitored on a CCGX. Higher power CPU devices can monitor more.

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