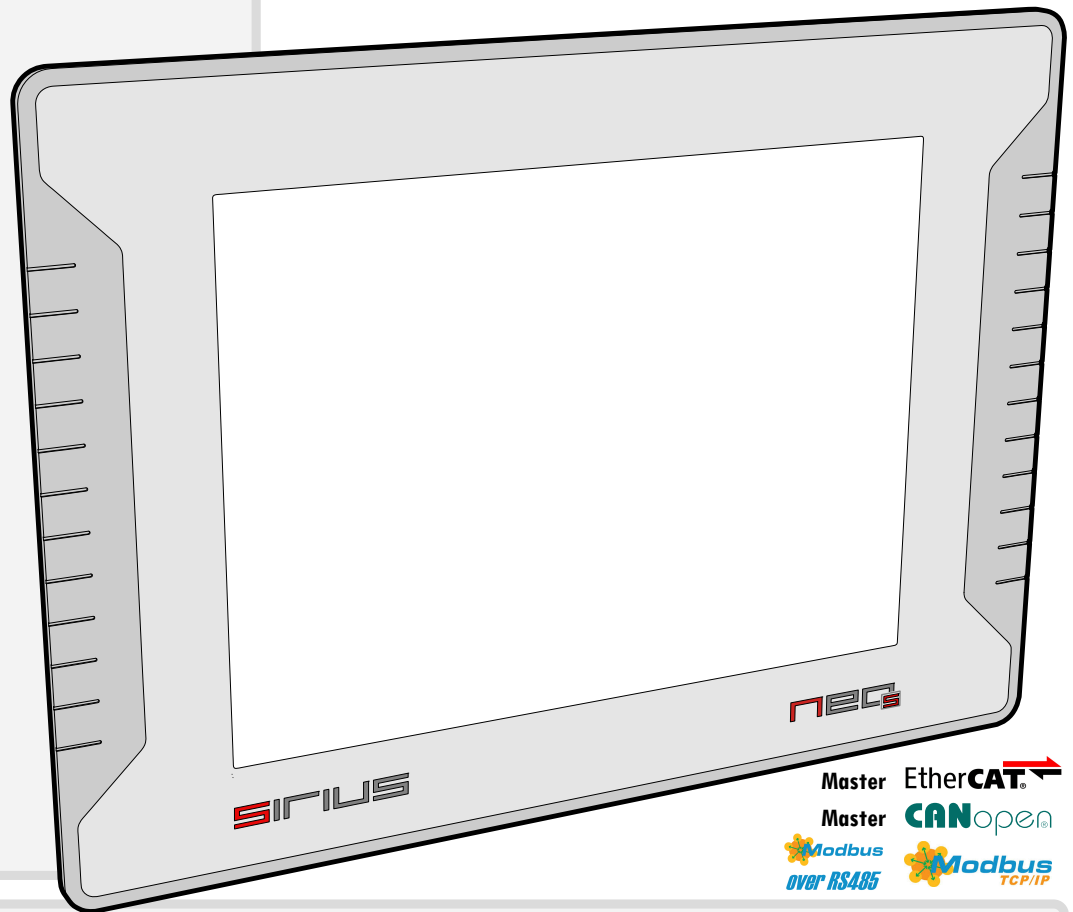
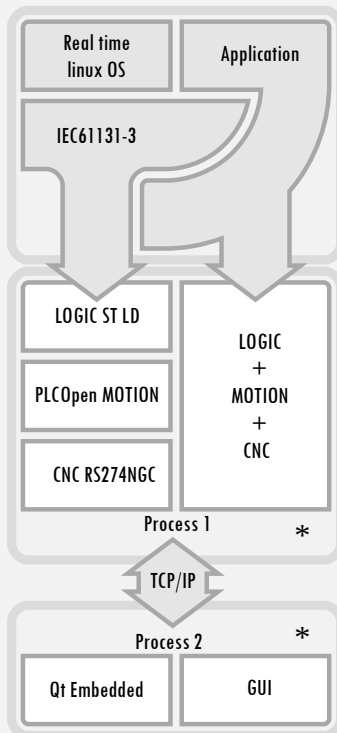


Software model



Features

Sirius designed NEOs architecture for scalability and efficiency in any application. Whether it is used as a pure viewer or when it becomes a full CNC, NEOs maintains an unmatched price-performance ratio.

NEOs is available with or without on board I/O. Depending on which kind of machine or process you are automating you can choose to use on board or two CANopen channels and Ethercat controlled peripherals, or a combination of both. NEOs is designed to be flexible and you can have it with up to 28 digital inputs and 16 digital outputs as well as 6 analog inputs and 2 analog outputs. Terminal blocks are grouped in 4 macro blocks for a rapid reinsertion during production or diagnostic.

NEOs runs real time linux based on Preempt-rt patch and features hardware floating point calculations. CAN and Ethercat jittering is maintained under 40us.

OS can be updated with a microSD card and the device can be updated via Ethernet or USB pen drive.

You can't believe how compact your next system could be: Logic, GUI and I/O are on the same device, measuring 330(L) x 265(H) x 50(W) mm

NEOs is IoT ready and can be used in industry 4.0 applications and offers full support for remote assistance and remote control via VNC

NEOs is compatible to the XML standard IEC 61131-3 and PLCopen Motion and the built-in CNC provides a G-Code interpreter ready for use.

With a customer-oriented design, the faceplate is fully customizable as well as user interfaces you design. Using Qt Designer editor you can create system themes to standardize your projects

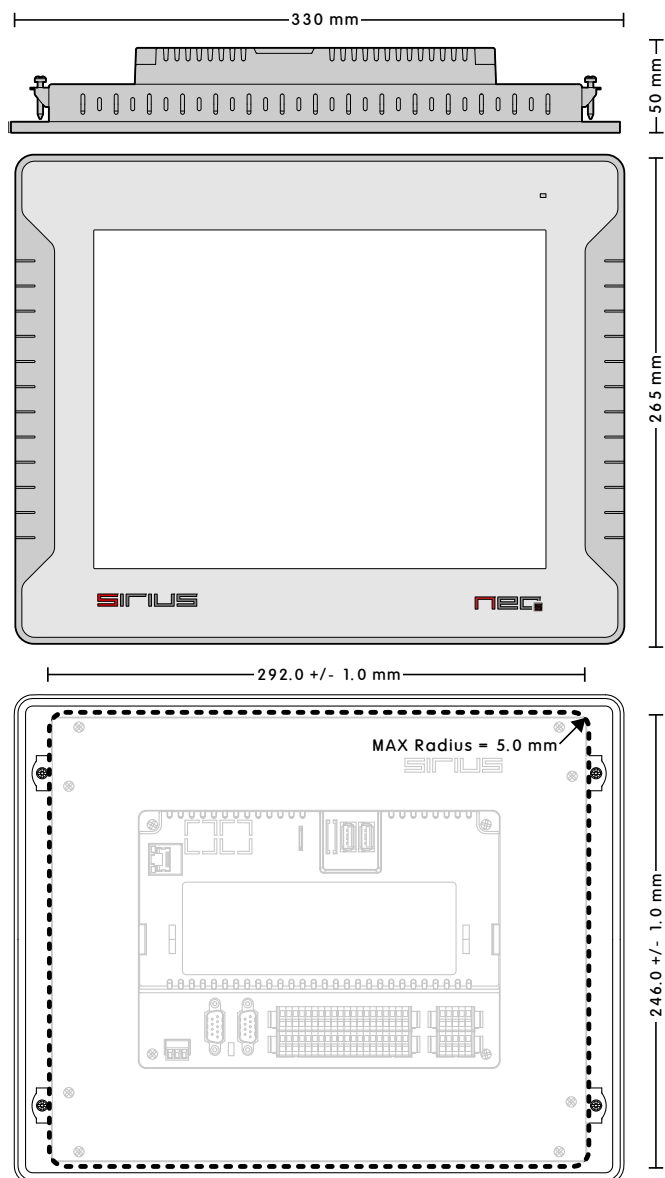
* Free SDK for IEC61131-3 and HMI editor, provided by Sirius

System integrators, developers and manufacturers can protect their work with NEOs embedded code protection. When deploying a project it will be encrypted allowing it run only on selected NEOs devices. There is no way that some one else can steal your code

NEOS12 Real time CANOpen-Ethercat

12" Touch Panel PLC

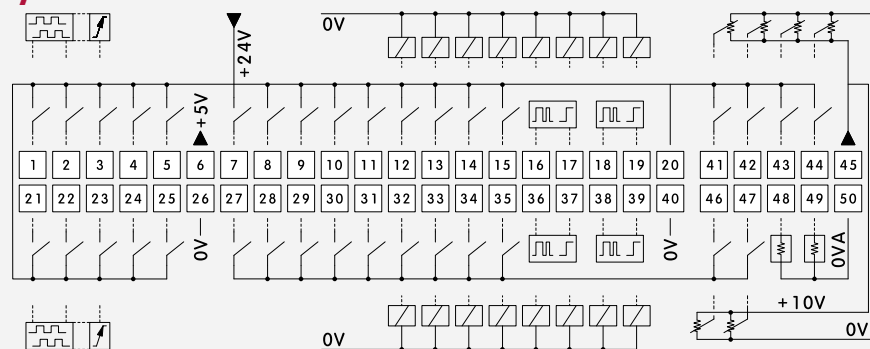
Rev 1 2026/05/11



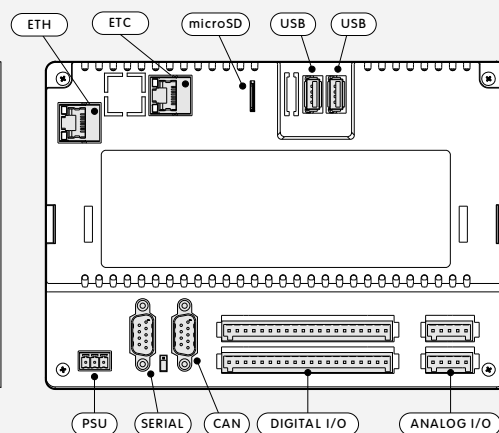
Tech Specs

Processor	STM32MP157FAA1
CPU	2x ARM Cortex A7 @ 800MHz + 1x ARM Cortex M4 @ 209MHz
GPU	Vivante - OpenGL ES 2.0
Memory	4GB 8 bit eMMC + microSD
RAM	1 GB DDR3L
Logic Power supply	24Vdc $\pm$ 20%
Display	12" TFT with graphic resource
Aspect ratio	4:3
Resolution	800x600 px
Brightness	450 nit
Touch Panel	Resistive 4 wires
Ethernet ports	1 @ 10 / 100 Mbps
Ethercat Master Channels	1 @ 10 / 100 Mbps
Serial	1 port RS232 / 485 optocoupled cable select
CAN Master Channels	2 CANopen independent, optocoupled
USB Ports	2 USB 2.0 type A
I/O Power Supply	24Vdc $\pm$ 20%
Digital IN	up to 22 @ 24V 2.5mA (4.7us RC)
High Speed Digital IN	up to 6 (3.3us RC)
Encoder IN (quadrature/P&D)	up to 2 @ 5V - 24V software selectable
Digital OUT	up to 8 @ 24V 700mA PNP, protected
High Speed Digital OUT	up to 8 @ 24V 200mA, PWM, limited (no inductive load)
Pulse and Direction OUT channels	up to 4
Analog IN	up to 6 @ 0-10V / 0-20mA (12 bit resolution)
Analog OUT	2 @ $\pm$ 10V (12 bit resolution)
Positioning Resolution	Less than 1 μ m
Functions	Capable of macro execution
Reverse polarity	Logic circuit, diode
Storage C°	-40 to +85 °C
Operating C°	0 to +45 °C
Humidity	0 to 95%, non condensing
Size (mm)	330 x 265 x 50
Weight	2030 g
Front Plate	Anodized aluminum / scratch resistant polycarbonate mask
Back Plate	ABS+PC V0 with painted metal case

I/Os



Digital and Analog I/Os are available only in "full" version



All names, brands, logos and symbols used in this document are registered trademarks of their respective owners

Rev 1 2026/05/11