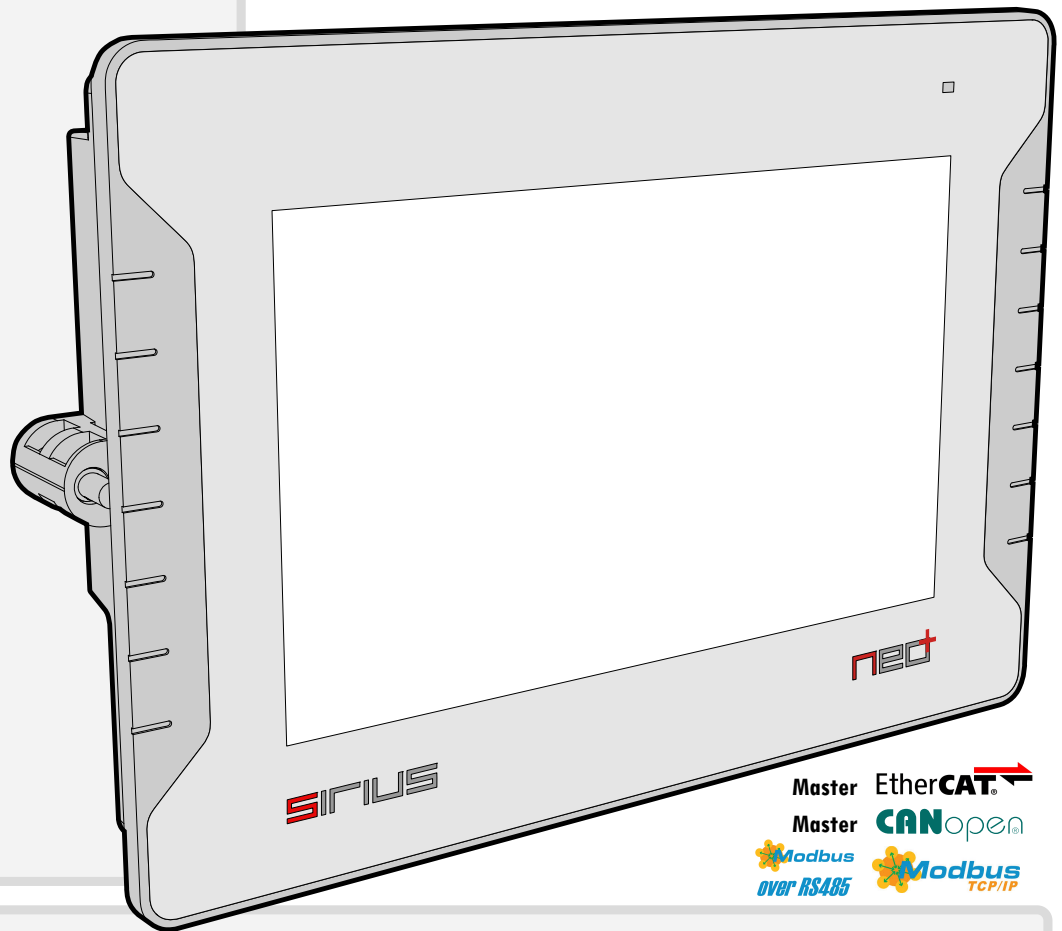
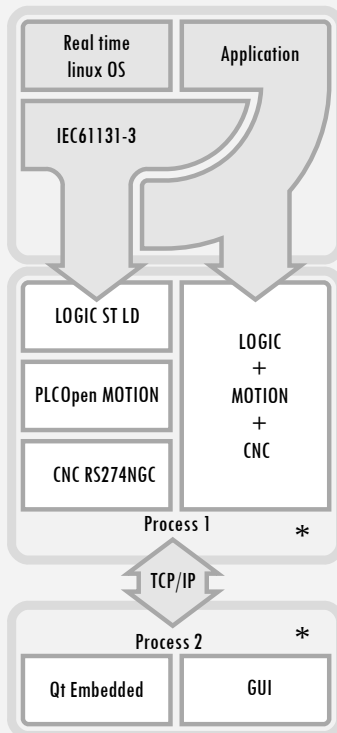


Software model



Features

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

Neo+ 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. Neo+ 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.

Neo+ runs real time linux based on Preemp_rt patch and features hardware floating point calculations. CAN and Ethercat jittering is maintained under 20us.

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 213(L) x 152(H) x 42(W) mm

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

Neo+ 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.

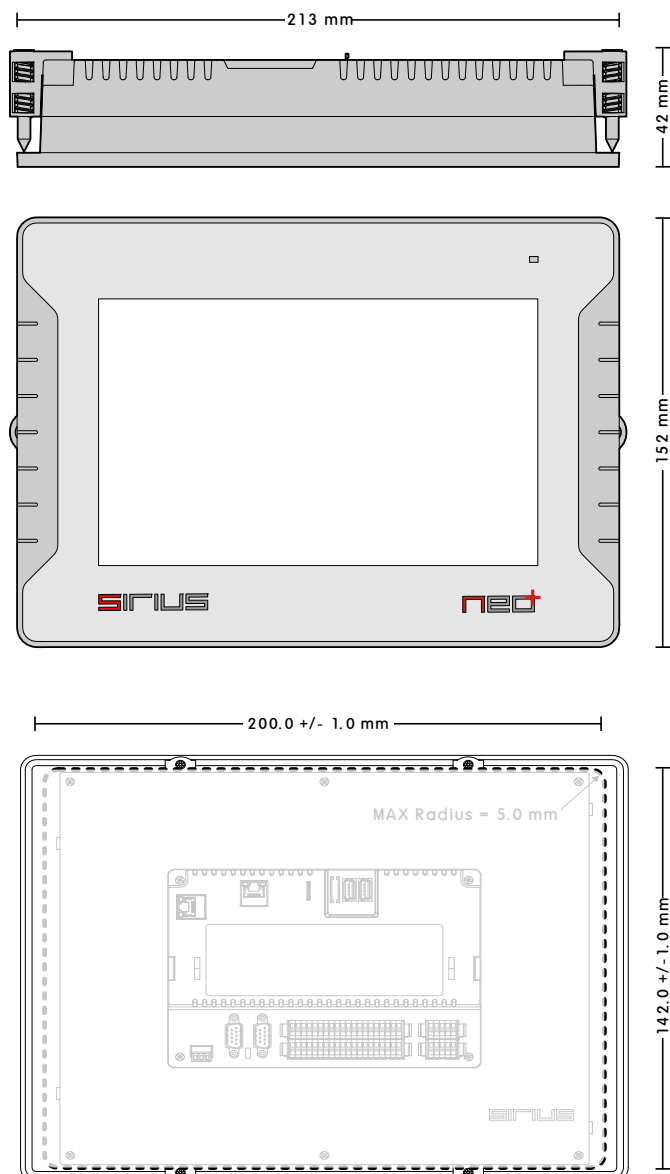
With a customer-oriented design, the faceplate is fully customizable as well as user interfaces you design. Using Qt Designer editor you can create system themes to standardize your projects

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

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

NEO7+ Real time CANOpen-Ethercat

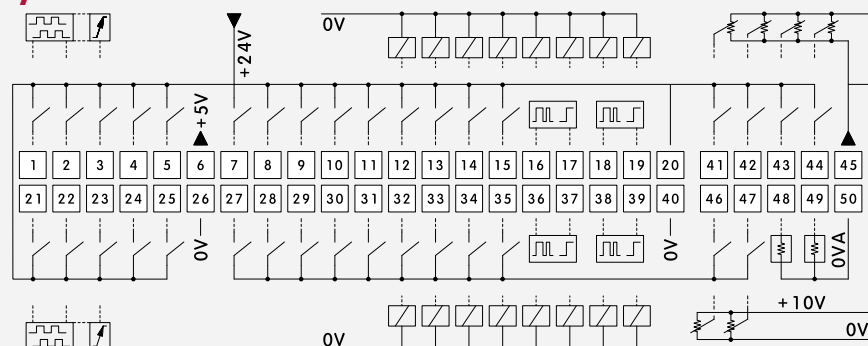
7" Touch PanelPLC



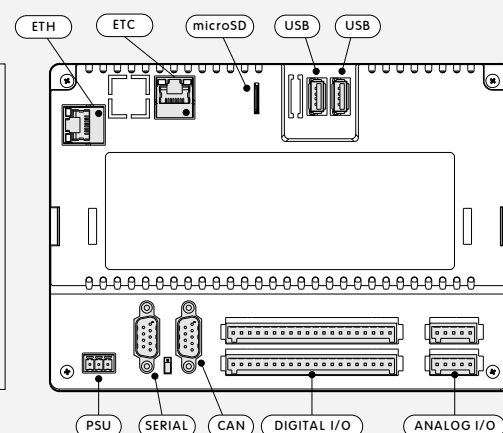
Tech Specs

Processor	MIMX8ML8DVNLZAB (i.MX8M PLUS)
CPU	4x ARM Cortex A53 @ 1,8GHz + 1x ARM Cortex M7 @ 800MHz + DSP
GPU	GC7000UL + GC520L
RAM	868KB OCRAM + 6GB LPDDR4
Memory	32GB 8 bit eMMC + 32MB QSPI FLASH + microSD
NPU	2,3 TOP/s
Ethernet ports	1 @ 10 / 100 / 1000 Mbps
Ethercat Master Channels	1 @ 10 / 100 / 1000 Mbps
Serial ports	1 RS232 / 485 optocoupled cable select
CAN Master Channels	2 CANopen independent, optocoupled
USB Ports	2 USB 3.0 type A
Logic Power supply	24Vdc $\pm$ 20% 1.1A resettable fuse
Display	7" TFT with graphic resource
Aspect ratio	4:3
Resolution	800x480 px
Brightness	400 nit
Touch Panel	Resistive 4 wires
I/O Power Supply	24Vdc $\pm$ 20% 1.1A resettable fuse
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 @ 5 - 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)	213 x 152 x 42
Weight	686 g
Front Plate	ABS+PC V0 with painted metal case
Back Plate	ABS+PC V0

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 3 2025/12/16