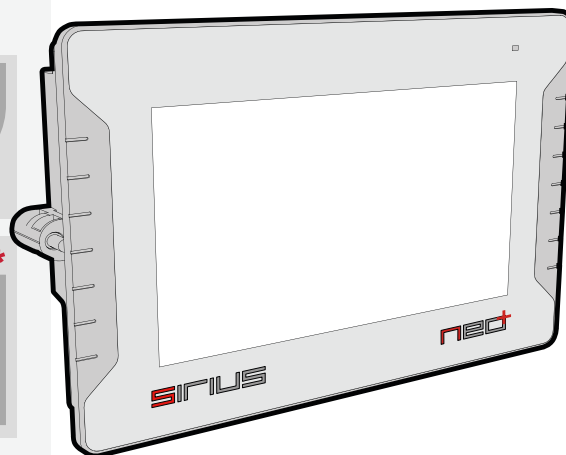
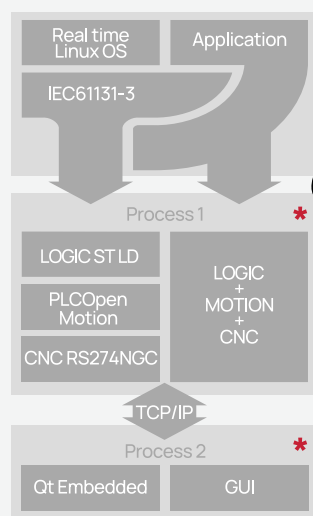


Features

- ✓ Sirius designed NEO+ architecture for scalability and efficiency in any application to maintains best price-performance ratio.
- ✓ NEO+ is available with or without on board I/O. You can choose to use on board or CANopen channels and Ethercat controlled peripherals, or a combination of both.
- ✓ PLC runs real time linux based on Preemp_rt patch and features hardware floating point calculations. CAN and Ethercat jittering is maintained under 20us.
- ✓ PLC are 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 with Qt Designer editor.
- ✓ * Free SDK for IEC61131-3 and HMI editor, provided by Sirius.

Software model



Modbus
over RS485

Modbus
TCP/IP

Master EtherCAT[®]
Master CANopen

Tech Specs

	NEO+ 7		NEO+ 12		NEO+ 15		SLC 20 (HMI not embedded)	
Processor	MIMX8ML8DVNLZAB (i.MX8M PLUS)							
CPU	4x ARM Cortex A53 @ 1,8GHz + 1x ARM Cortex M7 @ 800MHz + DSP							
GPU	GC7000UL + GC520L							
Memory	32GB 8 bit eMMC + microSD							
RAM	868KB OCRAM + 6GB LPDDR4							
NPU	2,3 TOP/s							
Logic Power Supply	24Vdc ± 20% 1.1A resettable fuse							
Display	7" TFT		12" TFT		15" TFT		HDMI output	
Aspect ratio			4:3				NO	
Resolution	800x480 px		800x600 px		1024x768 px		NO	
Brightness	400 nit		450 nit		500 nit		NO	
Touch Panel	Resistive 4 wires						NO	
Ethernet ports	1 @ 10/100/1000Mbps							
Ethercat Master Channels	1 @ 10/100/1000Mbps							
Serial ports	1 RS232 / 485 optocoupled cable select							
CAN Master Channels	2 CANopen independent, optocoupled						1 CANopen, optocoupled	
USB ports	2 USB 3.0 type A						1 USB 2.0 type B micro	
I/O Power Supply	24Vdc ± 20%						Common with logic power supply	
Digital IN (24V, 2.5mA, 1kHz)	up to 22						up to 8	
H Speed Dig IN (5V/24V, 800kHz)	up to 6						NO	
EncoderIN (Quadrature,PSD,800kHz)	up to 2 @ 5V / 24V software selectable (SA, SB, Index)						NO	
Digital OUT (24V,700mA,PNP)	up to 8							
H Speed Digital OUT	up to 8 @ 200mA, limited							
Pulse and Direction OUT channels	up to 4						NO	
Analog IN (only full version)	up to 6 @ 0-10V / 0-20mA (12bit resolution)						NO	
Analog OUT (only full version)	2 @ ± 10V (12bit resolution)						NO	
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		330 x 265 x 50		380 x 300 x 56		150 x 91 x 24.5	
Weight (g)	686		2030		3100		160	
Front Plate	ABS+PC VO / painted metal case		Anodized aluminum / scratch reistant polycarbonate mask				NO	
Back Plate	ABS+PC VO		ABS+PC VO with painted metal case				NO	
Case	Front Plate + Back Plate						Sirius case, same as peripherals	

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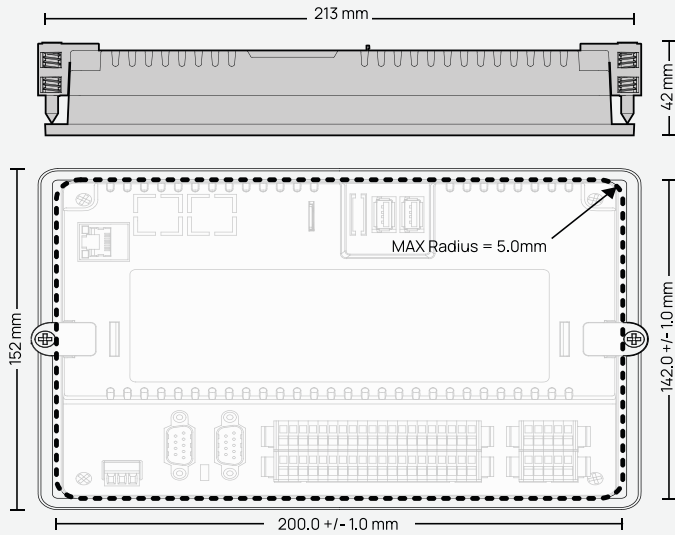


Sirius Electronic Systems s.r.l.
wiki.sirius-es.it

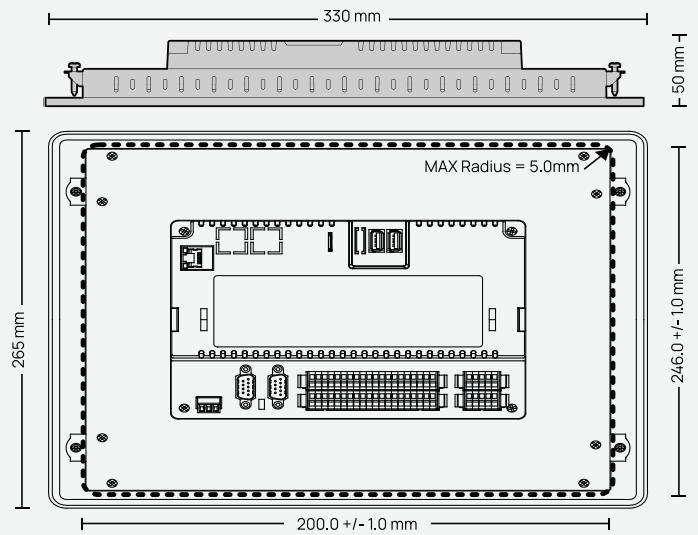
0039 0323 840838
information@sirius-es.it

Via Robinie 33 – Gravellona Toce
28883 – Verbania – Italia

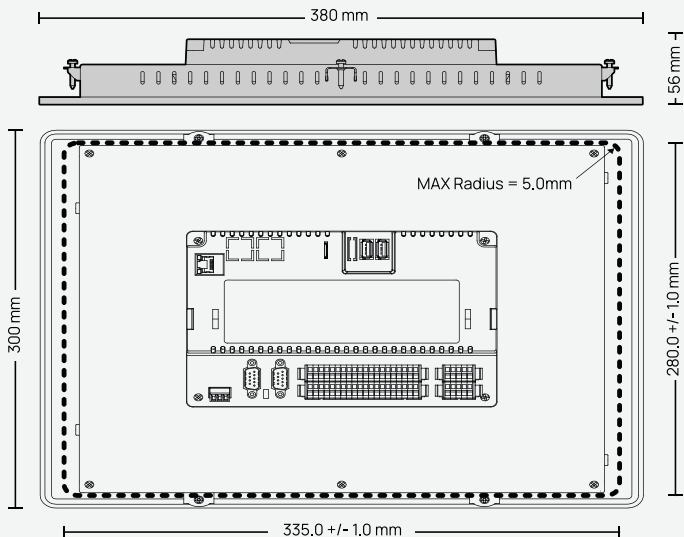
NEO 7+



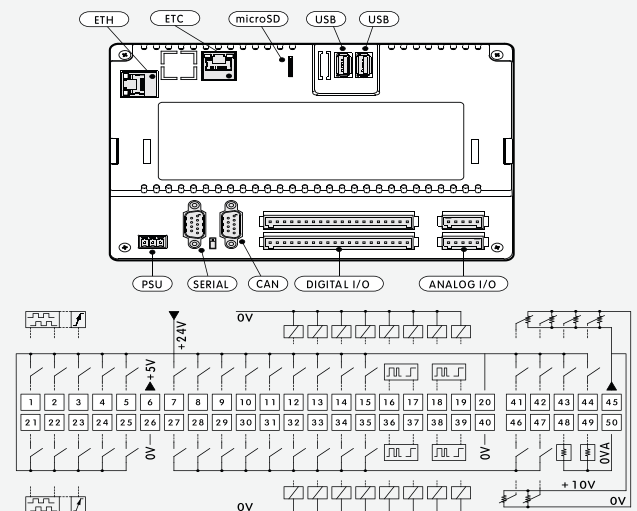
NEO 12+



NEO 15+



NEO 7+ - NEO 12+ - NEO 15+ I/O



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

IMX8M PLUS SOM

- ✓ Sirius provides you the IMX8M PLUS processor in a powerful SOM!
- ✓ You can develop your own board and take advantage of already developed system.
- ✓ Otherwise contact us to define the features your board needs and how we collaborate to you.

