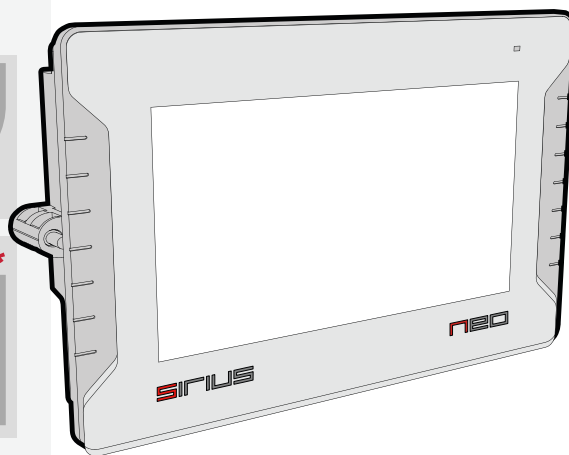
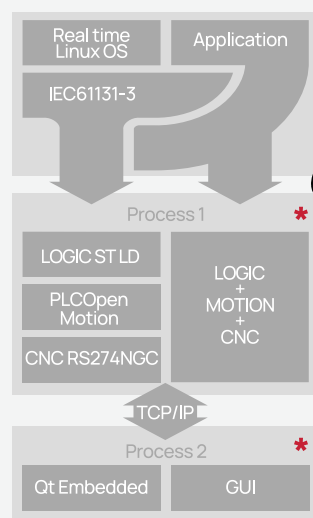


## Features

- ✓ 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 40us.
- ✓ 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 4.3                                                  | NEO 7                                                  | NEO 12                                                  | NEO 15         | SLC 10<br>(HMI not embedded)     |
|------------------------------------|----------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|----------------|----------------------------------|
| CPU                                | ARM Cortex A8 @ 1GHz                                     |                                                        |                                                         |                |                                  |
| GPU                                | SGX530                                                   |                                                        |                                                         |                |                                  |
| Memory                             | 4GB 8bit eMMC + microSD                                  |                                                        |                                                         |                |                                  |
| RAM                                | 512 MB DDR3                                              |                                                        |                                                         |                |                                  |
| Logic Power Supply                 | 24Vdc ± 20% 1.1A resettable fuse                         |                                                        |                                                         |                |                                  |
| Display                            | 4.3" TFT                                                 | 7" TFT                                                 | 12" TFT                                                 | 15" TFT        | HDMI output                      |
| Aspect ratio                       | 4:3                                                      |                                                        |                                                         |                | NO                               |
| Resolution                         | 480x272 px                                               | 800x480 px                                             | 800x600 px                                              | 1024x768 px    | NO                               |
| Brightness                         | 350 nit                                                  | 400 nit                                                | 450 nit                                                 | 500 nit        | NO                               |
| Touch Panel                        | Resistive 4 wires                                        |                                                        |                                                         |                | NO                               |
| Ethernet ports                     | 1 @ 10 / 100 Mbps                                        |                                                        |                                                         |                |                                  |
| Ethercat Master Channels           | 1 @ 10 / 100 Mbps                                        |                                                        |                                                         |                |                                  |
| Serial ports                       | 1 RS232 / 485 optocoupled cable select                   |                                                        |                                                         |                |                                  |
| CAN Master Channels                | 1 CANopen optocoupled                                    | 2 CANopen independent, optocoupled                     |                                                         |                | 1 CANopen, optocoupled           |
| USB ports                          | 2 USB 2.0 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 8                                                  | up to 22                                               |                                                         |                | up to 8                          |
| HSpeed Dig IN (5V/24V,800kHz)      | NO                                                       | up to 6                                                |                                                         |                | NO                               |
| Encoder IN (Quadrature,PSD,800kHz) | NO                                                       | up to 2 @ 5V / 24V software selectable (SA, SB, Index) |                                                         |                | NO                               |
| Digital OUT (24V,700mA,PNP)        | up to 8                                                  |                                                        |                                                         |                |                                  |
| HSpeed Digital OUT                 | NO                                                       | up to 8 @ 200mA, limited                               |                                                         |                |                                  |
| Pulse and Direction OUT channels   | NO                                                       | up to 4                                                |                                                         |                | NO                               |
| Analog IN (only full version)      | NO                                                       | up to 6 @ 0-10V / 0-20mA (12bit resolution)            |                                                         |                | NO                               |
| Analog OUT (only full version)     | NO                                                       | 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)                          | 165 x 110 x 31                                           | 213 x 152 x 42                                         | 330 x 265 x 50                                          | 380 x 300 x 56 | 150 x 91 x 24,5                  |
| Weight (g)                         | 434                                                      | 686                                                    | 2030                                                    | 3100           | 160                              |
| Front Plate                        | Anodized aluminum / scratch resistant polycarbonate mask | ABS+PC VO with painted metal case                      | Anodized aluminum / scratch reistant polycarbonate mask |                | NO                               |
| Back Plate                         | ABS+PC VO with painted metal case                        | 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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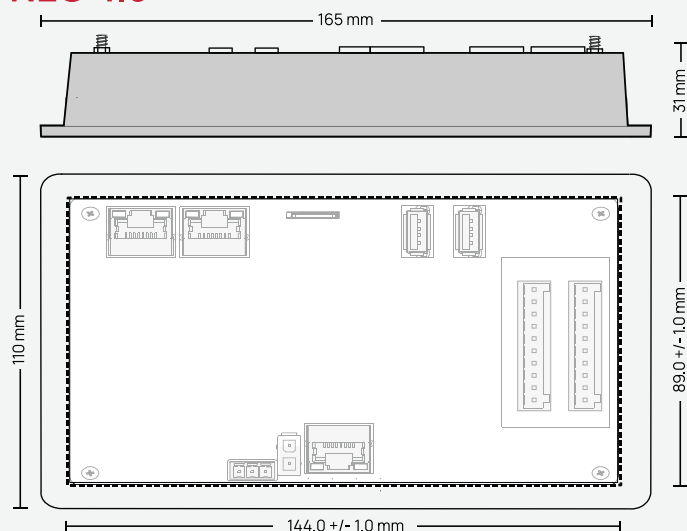


Sirius Electronic Systems s.r.l.  
wiki.sirius-es.it

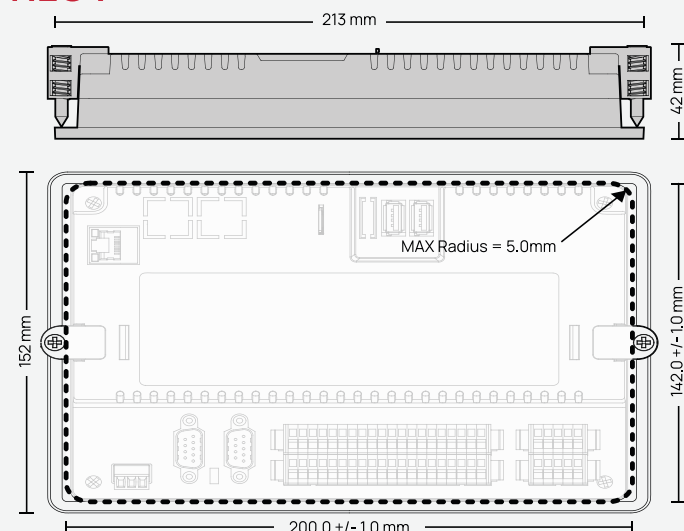
0039 0323 840838  
information@sirius-es.it

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28883 – Verbania – Italia

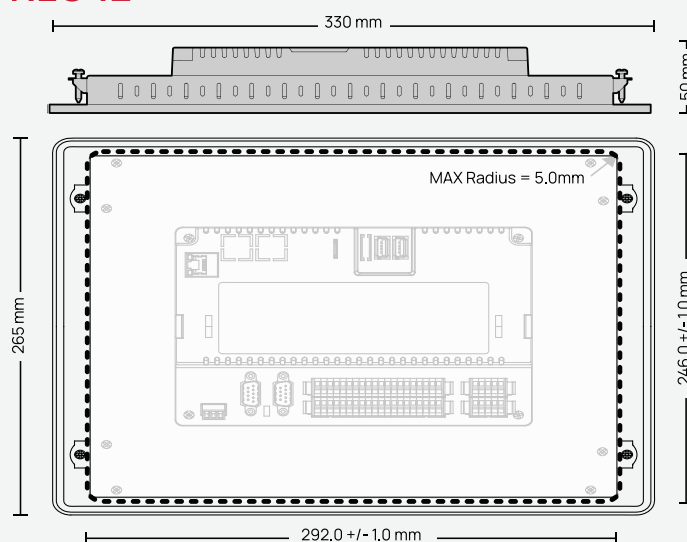
## NEO 4.3



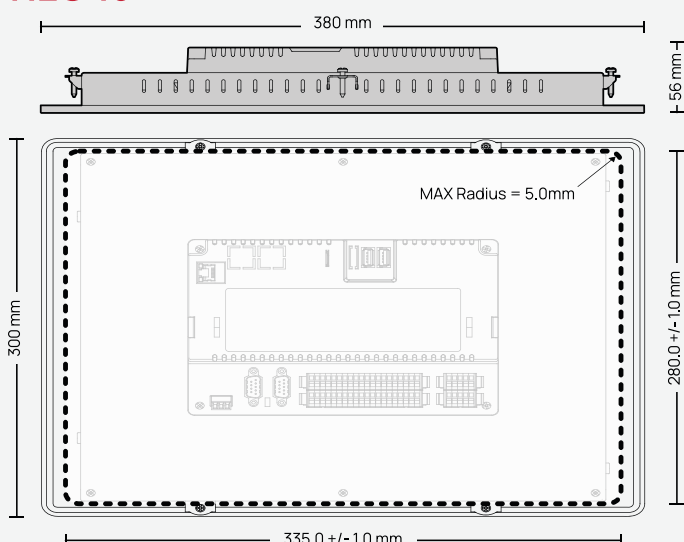
## NEO 7



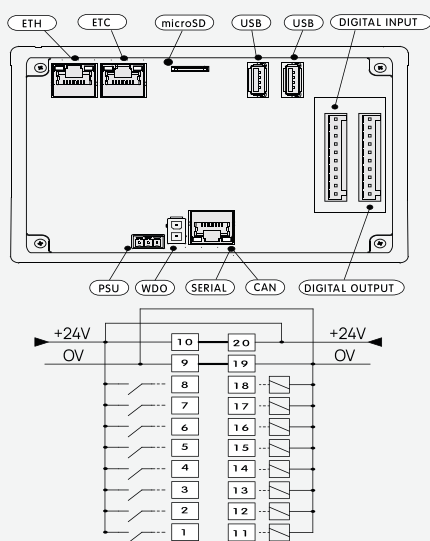
## NEO 12



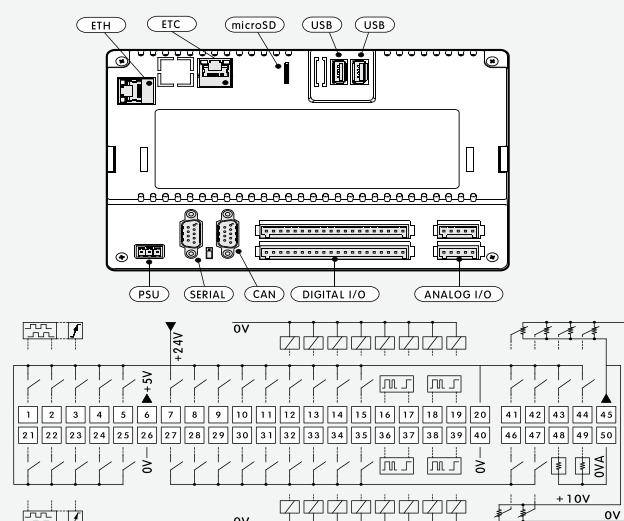
## NEO 15



## NEO 4.3 I/O



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



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