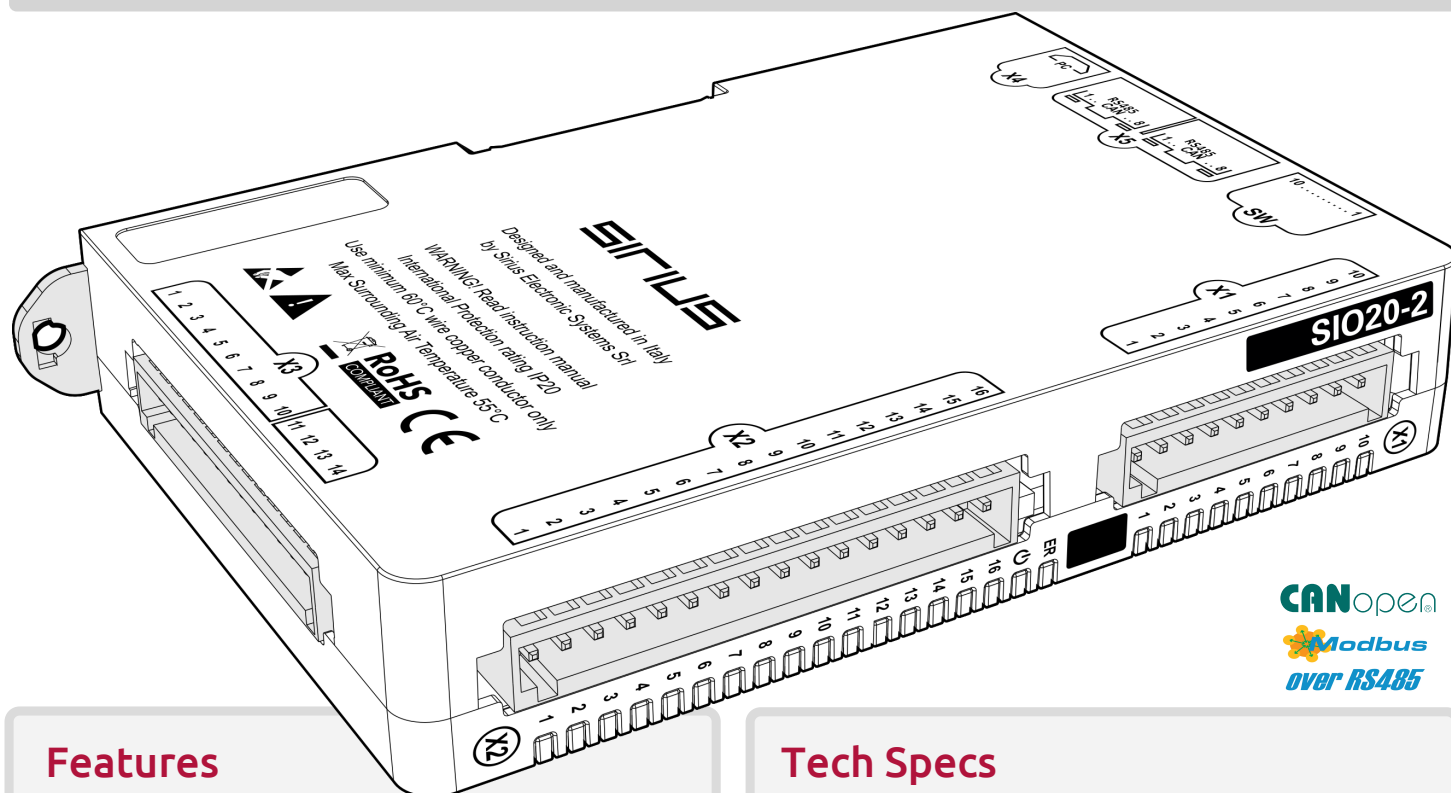




## Features

Industrial grade digital and analog I/O board powered at 24Vdc

16 configurable digital and analog I/Os capable of 4 latch input

8 high speed digital inputs capable of reading up to 4 encoders

8 analog inputs capable of reading voltage, input current and up to 4 differential inputs for PTC and JK thermocouple reading. 3-wire PTC reading can be done using analog inputs

2 smart I/V analog outputs

Communicates with any industrial computer board or PLC via CANopen or RS485 via two RJ45 pass-through ports to allow concatenation using standard UTP ethernet patches

Output equipped with short-circuit protection, input with over-voltage protection

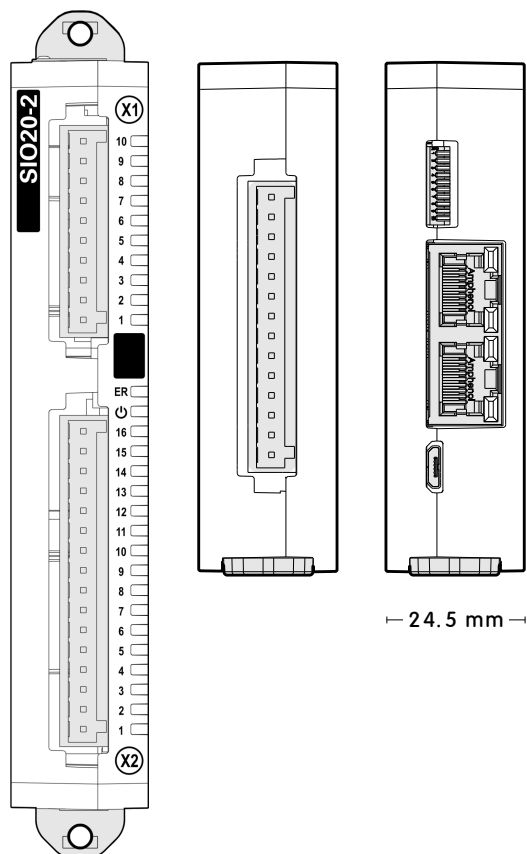
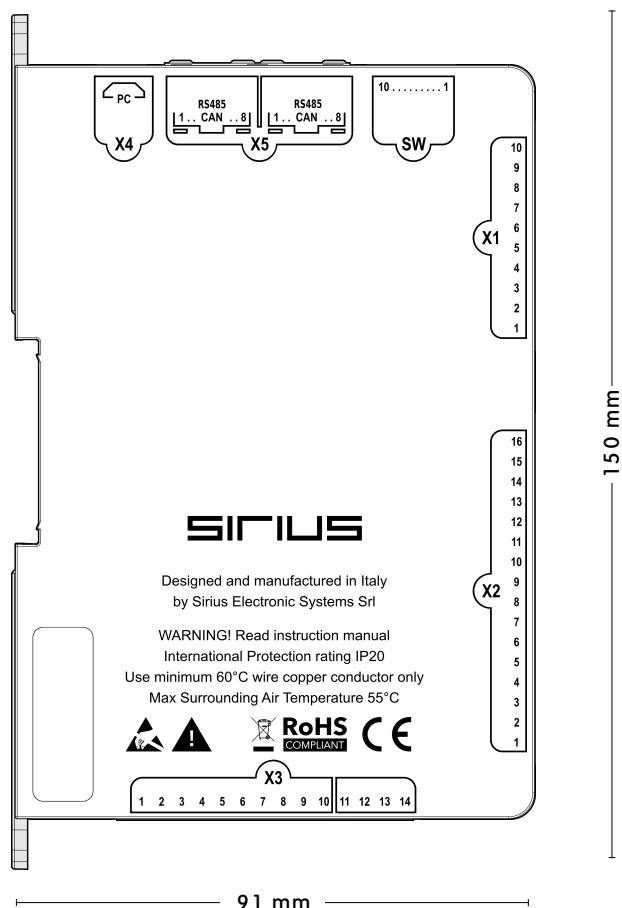
Operates as a stand-alone device or communicate via advanced networking as part of real-time system

Operates as I/O device under the DSP-401 protocol of the CANopen DS-301 application layer

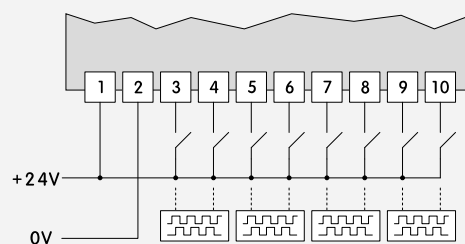
## Tech Specs

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Logic input Power        | 24Vdc $\pm$ 20%                                                                                   |
| RS485 Ports              | Up to 2 (Passthrough) optocoupled                                                                 |
| CAN Ports                | Up to 2 (Passthrough) optocoupled                                                                 |
| USB Ports                | 1 USB 2.0 type B for configuration and Virtual COM                                                |
| Digital Input            | Up to 16 @ 24V 2,5mA (4.7us RC)                                                                   |
| High Speed Digital Input | Up to 8 (3.3us RC)                                                                                |
| Encoder Input            | Up to 4 encoders input (and 4 latch)                                                              |
| Digital Output           | Up to 16 @ 24V 700mA PNP, protected                                                               |
| Analog Input             | Up to 8 @ 0-10V / $\pm$ 10V / 0-20mA<br>Thermocouple/PTC100/PTC1000 (2/3W)<br>(24 bit resolution) |
| Analog Output            | Up to 2 @ $\pm$ 10V or 0-20mA (12 bit resolution)                                                 |
| Reverse polarity         | Logic circuit, diode                                                                              |
| Storage C°               | -40 to +85 °C                                                                                     |
| Operating C°             | 0 to +55 °C                                                                                       |
| Humidity                 | 0 to 95%, non condensing                                                                          |
| Size (L x H x W)         | 150 x 91 x 24.5 mm                                                                                |
| Weight                   | 160 g                                                                                             |
| Mounting                 | M3 screws or TS 35 DIN rail                                                                       |

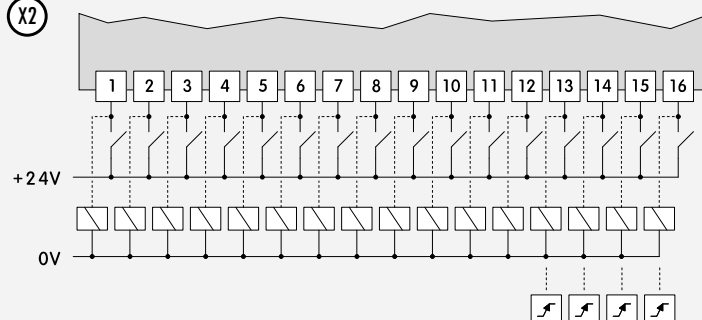
## SIO20-2 "Header Digital and Analog I/O Device CAN/RS485"



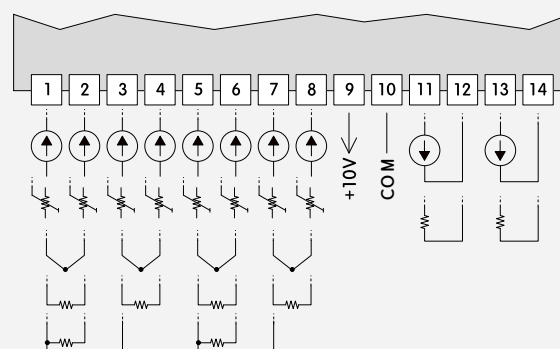
X1



X2

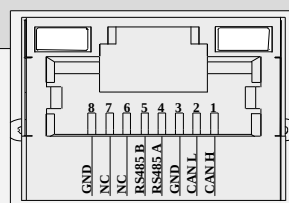


X3



X5

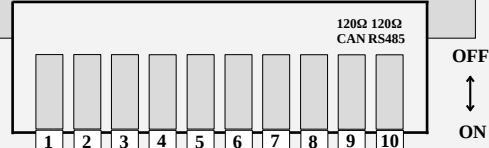
CAN/RS485 (2x RJ45 standard)



SW

-SW 1 to 6:  
CANOpen address

-SW 7 to 8:  
Baudrate selection



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