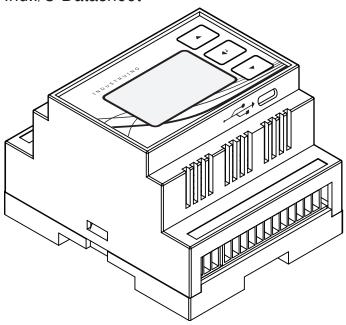
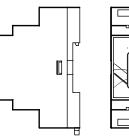
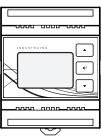


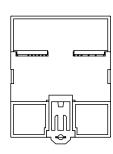
Ind.I/O Datasheet

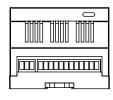




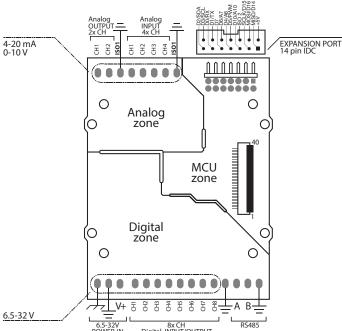








Ind.I/O Baseboard Pinout



	Digital zone	
6.5-32V	V+ 5 5 5 5 5 A B S S S S S S S S S S S S S S S S S S	

Notes

Industruino Ind.I/O is the Arduino-compatible equivalent of a PLC. The interface board offers 8 channels of 24V I/O, 4 channels of 0-10V/4-20mA 18bit ADC, 2 channels of 0-10V/4-20mA 12bit DAC, isolated RS485 transceiver, isolated power zones.

*Power for the main Industruino functions is supplied through the digital field section of the system. The MCU control section and analog field section are both galvanically isolated from the digital field section and each other. When a single power supply is used to power both Industruino and analog peripherals, the GND line of the analog section should be tied to the GND line of the digital section. If the GND line of the analog field section is not tied to the digital GND line, any incoming analog signals will appear to be floating.

*When operating in an electrically noisy environment it is possible to use a seperate power supply for your analog peripherals. This will improve the stability of your analog input/output signals. In this case the GND line of the digital field power supply should not be tied to the analog supply's GND line.

*The majority of IND.I/O board functions are controlled via i2c, therefore it requires the "Indio" Arduino library which can be found on our website's support page.

https://industruino.com/page/techcentre

Specifications subject to change without notice. Date: 02.06.2017

Installation	
Mounting	on 35 mm DIN rail, 4 spacing units wide
Supply voltage	
Standard input voltage	12V / 24V
permissible range, lower limit (DC)	8 V
permissible range, upper limit (DC)	28 V
Digital inputs	
Number of digital inputs	8 (shared with digital outputs)
Type of digital input	Galvanically isolated serializer with interrupt
Input voltage range	0-28V
Logic HIGH voltage	>11V
Logic LOW voltage	<3V

Logic Lovy voltage	<3V
Maximum trigger frequency	10 KHz
Protection of digital outputs	Short-circuit, over-current, over-temperature, ESD, transients.
Digital outputs	
Number of digital outputs	8 (shared with digital outputs)
Type of digital output	Galvanically isolated high-side driver (Charge pump NFET)
Output voltage range	Tied to supply voltage (6.5-32V)
Maximum current per output	2.6 A
Maximum total current	6.5 A
Maximum switching frequency	400 Hz
Protection of digital outputs	Short-circuit, over-current, over-temperature, ESD, transients.
Analog inputs	

Analog inputs	
Number of analog inputs	4
Type of analog inputs	Buffered ADC
Range of voltage measurement	0-10V
Range of current measurement	0-20mA
Switching of voltage / current mode	Automatic - in software
Resolution	18Bit
Conversion rate	18bit: 3.75 Hz - 16bit: 15 Hz - 14bit: 60 Hz - 12bit: 240 Hz
Protection of analog inputs	ESD, transients.

Protection of analog inputs	ESD, transients.	
Analog Outputs		
Number of analog outputs	2	
Type of analog outputs	Buffered DAC	
Range of output voltage	0-10V	
Range of output current	0-20mA	
Switching of voltage / current mode	Automatic - in software	
Resolution	12Bit	
Update rate	20 KHz	
Protection of analog outputs	Short-circuit, over-current, over-temperature, ESD, transients.	

N3403	
Isolation topology	Isolated from MCU and analog field section
Duplex type	Half duplex
Number of receivers on bus	32
Data rate	1 Mbps
Expansion port (direct MCU control)	
Isolation topology	Isolated from digital and analog field section
Number of pins	14
Voltage level	5V
Protocols supported	SPI, I2C, UART, 9 GPIO's
Protection of expansion port	ESD, transients.
User Interface	
LCD	100vC4 pivol FCTN with dimension be addight

Protocois supporteu	SFI, IZO, UARI, 9 GFIOS
Protection of expansion port	ESD, transients.
User Interface	
LCD	128x64 pixel FSTN with dimmable backlight
Push buttons	3 - push button membrane panel
Enviromental	
Protection class	IP20
Ambient operating temperature	0 - 55 °C
Dimensions	
Width	71.5 mm
Height	87 mm
Depth	58 mm
Weight	150 a

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for I/O Modules category:

Click to view products by Industruino manufacturer:

Other Similar products are found below:

70L-IDC5S 70L-OAC-L 70Z3289-4 G21960000700 G21960002700 G34960002700 OACU C4SWOUT PB16H G34960001700 G3TA-OA101SZ-1 DC24 G77-S 5607189 DA5 ODC-24A IDC5P FC6A-N16B1 6421 70MRCQ32-HL G3TAOD201SDC24 C200H-LK201-V1 G3TA-OA202SZ-US DC12 GT1-OD16 GT1-AD04CST B7AM-6BS 70GRCQ24-HS 6422 84110410 GT1-OD16MX G7VC-OC16-B7 70MRCK24-DIN 6202 6402 PI/NI-2D/24 FC6A-J2C1 FC6A-KC1C FC6A-R081 FC6A-J8CU1 GP32900003700 641-480-5022 PB16H 84145010 84110210 FRUSB1601 PCL-720+-BE FRRJ451601 AP24MX3DB25F ADAM-5053S-AE WISE-S614-A C200H-OD211