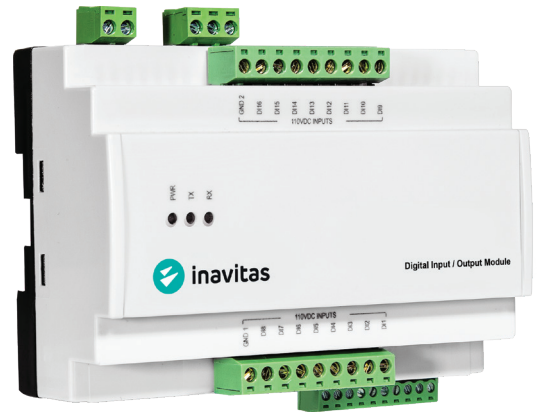


DIO

Digital Input / Output



Device Description

DIO (Digital Input/Output) Module can display on/off or 1/0 data for up to 16 channels. Input channels with high impedance reduce the input current and noise immunity is increased through hysteresis. The device has a anti-jumping filter to prevent contact from jumping. The device also has 32 bit change registers and these registers display the level changes in the input channels. DIO (Digital Input/Output) has 8 channels of isolated solid state relay output. Output channels are isolated from each other. The output type can be changed to latch or unlatch output with the specified time.

The user can configure input polarities, anti-jumper filter time, serial communication port settings and output latch time easily through DIO user interface. User can also turn the "Test Mode" on the module. All the inputs and outputs are adjustable for site tests in the "Test Mode".

Device Specifications

Supply Voltage Range	18-36 V _{DC}
Nominal Supply Voltage	24V _{DC}
CPU	ARM Cortex-M4 32 Bit 84 MHz
Flash	256 kB
RAM	32 kB
Watchdog Timer	System Reset / 5 sec
Power Consumption	< 1 W @ 24V _{DC}
Real-Time Clock	Available

Communication Specifications

Communication Protocols	Modbus-RTU
Serial Interfaces	Isolated RS-485
Serial Communication Speed	12000bps – 115200bps
Connection Type	3 wired (A, B, GND), Half Duplex
Data Type	8 bit data, No parity, 1 bit stop
Isolation	2.5 kVAC, rms, 1 minute
USB Connector	Micro Usb

Digital Input Specifications

Number of Digital Input Channels	16
Input Channel Voltage Range	0 – 36 V _{DC} / 0 – 150 V _{DC} (Should be defined on order)
Input Channel Isolation	Available, Isolated with Optocoupler
Input Current	1.5 mA / Channel
Input Filter	Programmable, Default: 20ms
Input Change Counter	32 Bit

Digital Output Specifications

Number of Digital Output Channels	8 (Type Dry-Contact)
Output Channel Voltage Range	0 – 36 V _{DC} or 0-250 V _{AC}
Nominal Output Voltage	24 V _{DC} / 110 V _{DC} / 220 V _{AC}
Output Type	Dry-Contact Relay
Max. Output Current	50 mA / Channel
Load Type	Resistive, Inductive
Output Channel Isolation	Available, Isolated with Optocoupler

Environment Conditions

Standards	IEC 61326-1, EN 301489-1, IEC 61010-1, EN 60950-1
Operating Temperature	-25°C / +70°C
Storage Temperature	-40°C / +70°C
Operating Humidity	25% - 95% RH
Protection Class	IP20

Mechanical Specifications

Device Dimensions (W x H x D)	113.4 mm x 126 mm x 56.9 mm
Weight	250gr