Datasheet 10 I/Os Digital Module CPU Arduino Nano



Technical Features CONECTABLE PLC ARDUINO 24Vcc 10 I/Os

MODEL TYPE	PLC 10 I/Os Digital Module CPU Arduino Nano	
Input Voltage	12 to 24Vdc (Fuse protection (2.5A) Polarity protection)	
Input rated voltage	24Vdc	
Rated Power	30 W	
I max.	15A	
Size	100x45x115	
Clock Speed	16MHz	
Flash Memory	32KB of which 4KB used by bootloader	
SRAM	2KB	
EEPROM	1KB	
Communications	USB, RS485, Ethernet	
USB consideration!	USB consideration! Only for uploading or debugging. NOT connected as a serial Cannot be working in a final application	

General Features

Power supply voltage	DC power supply	12 to 24Vdc
Operating voltage range	DC power supply	11.4 to 25.4Vdc
Power consumption	DC power supply	30 W MAX.
External power supply	Power supply voltage	24Vdc
	Power supply out. cap.	300mA
Insulation resistance	20MΩ min.at 500Vdc between the AC terminals and the protective earth terminal.	
Dielectric strength	2.300 VAC at 50/60 Hz for one minute with a leakage current of 10mA max. Between all the external AC terminals and the protective ground terminal.	
Shock resistance	80m/s2 in the X, Y and Z 2 times each.	direction
Ambient temperature (operating)	0° to 60°C	
Ambient humidity (operating)	10% to 90% (no condensati	ion)
Ambient environment (operating)	With no corrosive gas	
Ambient temperature (storage)	-20° to 60°C	
Power supply holding time	2ms min.	
Weight	284g max.	

① INPUTS (x10)

Digital Input (24Vcc) - (x10)	3.3 to 24 Vdc Input Impedance: 27K Separated PCB ground Rated Voltage: 10Vac
	220 Vac (3 – 48 Vdc) Input Impedance: 54K Rated Voltage: 220 Vac
	lmin: 2 to 12 mA Opto-isolation Rated Voltage: 24 Vdc
	Antipolarity + Overcurrent (220 Ac)

Expandability

ModbusRTU RS485: 32 elements - USB - Ethernet

OUTPUTS (x10)

Digital Isolated	
Output (24Vcc)	
(x10)	

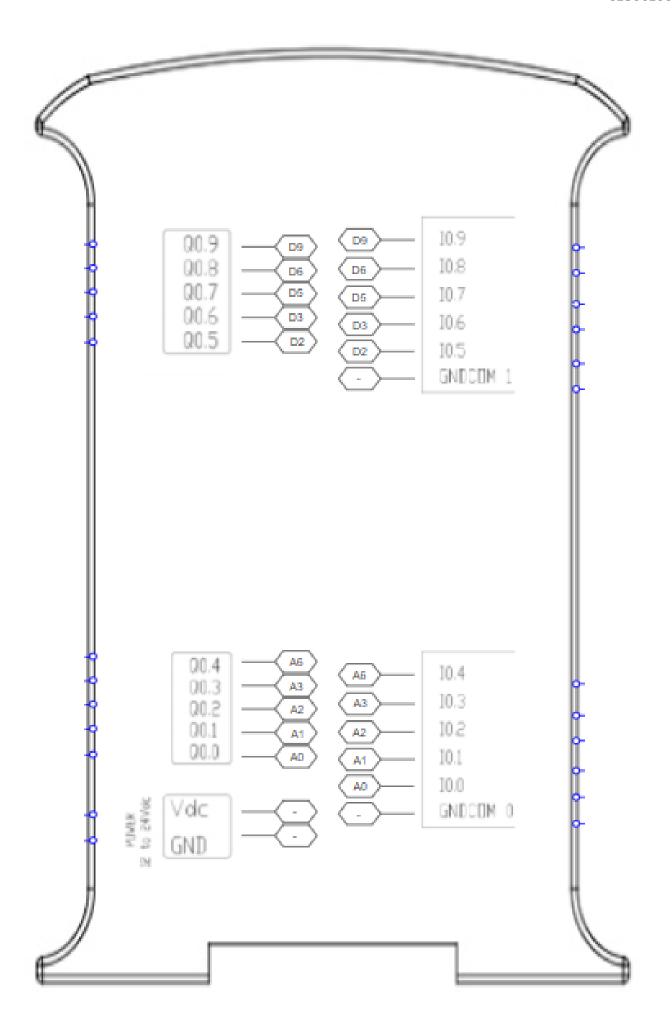
24 Vdc (23,2 Vdc) Imax: 300 mA Optro-isolation Rated Voltage: 24Vdc Imax 24Vdc: 1 A



Pinout

A ZONE







Performance Specifications

Arduino Board	Arduino Nano
Control method	Stored program method
I/O control method	Combination of the cyclic scan and immediate refresh processing methods.
Programming language	Arduino IDE. Based on wiring (Wiring is an Open Source electronics platform composed of a programming language. "similar to the C")
Microcontroller	ATmega4809
	http://arduino.cc/en/Tutorial/HomePage

Install Arduino IDE and the Industrial Shields boards

The steps to follow to install our equipment's to Arduino IDE are:

• Open the Arduino IDE, versión 1.8.0 or superior. If you don't have it yet, you can download here

https://www.arduino.cc/en/Main/Software.

- Press the "Preferences" option to "File" menu and open the preferences window.
- In the text box "Additional boards manager URLs", add the direction: http://apps.industrialshields.com/main/arduino/boards/package_industrialshields_index.json
- · Close the preferences window with the "OK" button.
- Click on "Tools" menu, and open the "Boards" submenu, and click the "Boards Manager" option, to open the Boards Manager window.
- Search "industrialshields" to the search filter and select to the list and click "Install"
- Close the "Boards Manager". Once it is performed that steps, you are available to select each PLC that you wish to work on "Tools" -> "Boards": M-Duino...

To get more information:

https://www.industrialshields.com/first-steps-with-the-industrial-arduino-based-plc-s-and-the-panel-pc-s-raspberry-pi-based#boards

Warnings



Unused pins should not be connected. Ignoring the directive may damage the controller.

Before using this product, it is the responsibility of the user to read the product's User Guide and all accompanying documentation.

Industrial Shields PLCs must be powered between 12Vdc and 24Vdc. If a higher voltage is supplied to the equipment can suffer irreversible damage.

Maintenance must be performed by qualified personnel familiarized with the construction, operation, and hazards involved with the control.

Maintenance should be performed with the control out of operation and disconnected from all sources of power.

The Industrial Shields Family PLCs are Open Type Controllers. It is required that you install the M-Duino PLC in a housing, cabinet, or electric control room. Entry to the housing, cabinet, or electric control room should be limited to authorized personnel.

Inside the housting, cabinet or electric control room, the Industrial Shields PLC must be at a minimum distance from the rest of the components of a minimum of 25 cm, it can be severely damaged.

Failure to follow these installation requirements could result in severe personal injury and/or property damage. Always follow these requirements when installing M-Duino family PLCs.

In case of installation or maintenance of the M-Duino please follow the instructions marked in the Installation and Maintenance section on the User Guide.

Do not disconnect equipment when a flammable or combustible atmosphere is present.

Disconnection of equipment when a flammable or combustible atmosphere is present may cause a fire or explosion which could result in death, serious injury and/or property damage.

Symbology

	Indicates that the equipment is suitable for direct current only; to identify relevant terminals
\sim	Indicates that the equipment is suitable for alternating current only; to identify relevant terminals
	To identify the control by which a pulse is started.
ļ <u></u>	To identify an earth (ground) terminal in cases where neither the symbol 5018 nor 5019 is explicily required.
	To identify the switch by means of which the signal lamp(s) is (are) switched on or off.
C€	CE marking indicates that a product complies with applicable European Union regulations
<u> </u>	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
4	To indicate hazards arising from dangerous voltages

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