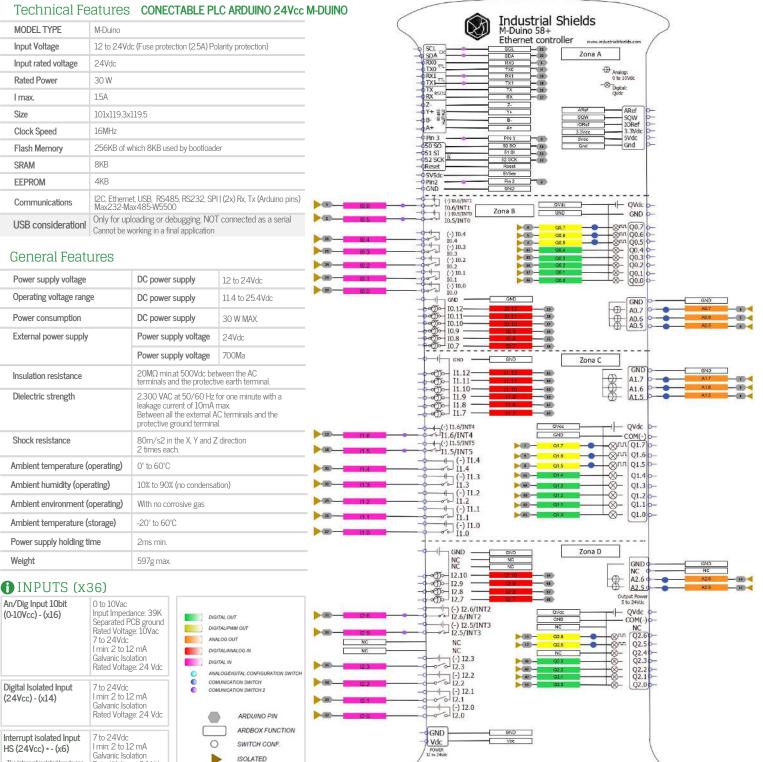
Datasheet M-Duino 58+



Industrial Shields

IS.MDuino 58+



(24900)-(X14)	Galvanic Isolation Rated Voltage: 2
Interrupt isolated Input HS (24Vcc) * - (x6)	7 to 24Vdc I min: 2 to 12 m/ Galvanic Isolation

 The Interrupt isolated Inputs can also work as Digital isolated Inputs Rated Voltage: 24 Vdc

Expandability

I2C - 127 elements - Serial Port RS232/RS485

OUTPUTS (x22)

0 to 10Vac I max: 20 mA Separated PCB ground Rated Voltage: 10Vac
5 to 24Vdc I max: 70 mA Galvanic Isolation Diode Protected for Relay Rated Voltage: 24Vdc
220V Vdc I max: 5A Galvanic Isolation Diode protected for Relay
lmax 24Vdc: 410 mA
5 to 24Vdc I max: 70 mA Galvanic Isolation Diode Protected for Relay Rated Voltage: 24Vdc





DataSheet Rev. 20200710

Mustrial Shields

Performance Specifications

1		
Arduino Board	Arduino Mega 2560	
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	ATmega2560	
	http://arduino.cc/en/Tutorial/HomePage	

Install Arduino IDE and the Industrial Shields boards	Warnings
The steps to follow to install our equipment's to Arduino IDE are:	Unused pins should not be connected. Ignoring the directive may damage the controller.
\cdot Open the Arduino IDE, versión 1.8.0 or superior. If you don't have it yet , you can download here	Before using this product, it is the responsibility of the user to read the product's User Guide and all accompanying documentation.
https://www.arduino.cc/en/Main/Software .	Industrial Shields PLCs must be powered between 12Vdc and 24Vdc. If a higher voltage is supplied to the equipment can suffer irreversible damage.
Press the "Preferences"option to "File" menu and open the preferences window.	Maintenance must be performed by qualified personnel familiarized with the construction, operation, and hazards involved with the control.
 In the text box "Additional boards manager URLs", add the direction: http://apps.industrialshields.com/main/arduino/boards/package_ind 	Maintenance should be performed with the control out of operation and disconnected from all sources of power.
ustrialshields_index.json Close the preferences window with the "OK" button. 	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.
• Click on "Tools" menu, and open the "Boards" submenu, and click the "Boards Manager" option, to open the Boards Manager window.	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.
\cdot Search "industrial shields" to the search filter and select to the list and click "Install"	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.
 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 	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.
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	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

Technical Suppor	t.
100mmou buppor	L.

Synnor		roemieu support
	Indicates that the equipment is suitable for direct current only; to identify relevant terminals	You can contact with us using the best channel for you: support@industrialshields.com
\sim	Indicates that the equipment is suitable for alternating current only; to identify relevant terminals	
Л	To identify the control by which a pulse is started.	www.industrialshields.com
	To identify an earth (ground) terminal in cases where neither the symbol 5018 nor 5019 is explicily required.	Visit our Blog, Forum orTicketing system
\otimes	To identify the switch by means of which the signal lamp(s) is (are) switched on or off.	34 644 927 900
CE	CE marking indicates that a product complies with applicable European Union regulations	Use our chat service
⚠	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury	Check the user guides
4	To indicate hazards arising from dangerous voltages	Visit our Channel