Technical Features

CONECTABLE PLC ARDUINO 24Vcc M-DUINO

**MODEL TYPE**
- M-Duino

**INPUTS (x31)**

- **An/Dig Input 10bit**
  - (0-10Vcc) - (x16)
- **Digital Isolated Input**
  - (24Vcc) - (x10)
- **Interrupt isolated Input**
  - HS (24Vcc) * - (x5)
- **PWM Isolated Output 8bit**
  - (0-10Vcc) - (x6)
- **PWM Isolated Output Relay**
  - (x7)
- **Analog Output 8bit**
  - (0-10Vcc) - (x6)
- **Digital Isolated Output 8bit (24Vcc) - (x10)**
- **Digital Isolated Output Relay - (x7)**
- **PWM Isolated Output 8bit (24Vcc) - (x6)**

**OUTPUTS (x23)**

- **Analog Output 8bit**
  - (0-10Vcc) - (x6)
- **Digital Isolated Output 8bit (24Vcc) - (x10)**
- **Digital Isolated Output Relay - (x7)**
- **PWM Isolated Output 8bit (24Vcc) - (x6)**

**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 voltage
  - 700Ma
- **Insulation resistance**
  - 2MΩ 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 b 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 direction 2 times each.
- **Ambient temperature (operating)**
  - 0° to 60°C
- **Ambient humidity (operating)**
  - 10% to 90% (no condensation)
- **Ambient environment (operating)**
  - With no corrosive gas
- **Ambient temperature (storage)**
  - -20° to 60°C
- **Power supply holding time**
  - 2ms min
- **Weight**
  - 599g max

**External power supply**
- 24Vdc

**SRAM**
- 8Kb

**Flash Memory**
- 256KB of which 8KB used by bootloader

**EEPROM**
- 4KB

**Communications & Accessories**
- I2C, Ethernet, USB, RS485, RS232, SPI, LoRa, RTC, microSD

**USB consideration**
- Only for uploading or debugging. NOT connected as a serial
  - Cannot be working in a final application
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: