10 I/Os Modules - CPU Arduino NANO

Product Overview

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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot 10 I/Os Modules - CPU Arduino NANO are designed to provide a simple and cost-effective solution to the applications of industrial monitoring and control. These modules implement open source-based hardware that makes it easy to install and configure. The 10 I/Os modules feature standardized PLC connectors and support RS485, Ethernet, and optoisolated input / output. This makes the modules suitable for the monitoring, control and automation of machines, alarms, elevator control, product lines, and installations. Applications include fans, pumps, air conditioning, full HVAC solutions, control of AC and DC motors.

Features

- 10 I/O interfaces
- Standardized connectors
- Supports RS485

Specifications

- MCU:
  - Arduino Nano
- Power input:
  - $12V_{DC}$ to $24V_{DC}$
- $24V_{DC}$ input rated voltage
- 30W rated power
- 1.5A maximum current
- 16MHz clock speed
- 2KB SRAM
- 1KB EEPROM
- Communication:
  - USB, RS485, and Ethernet
- $11.4V_{DC}$ to $25.4V_{DC}$ operating voltage range

- Digital input:
  - 3.3V to 24V DC (10Hz)
- $24V_{DC}$ digital isolated output
- 0°C to 60°C operating temperature range
- 10%~90% operating humidity
- -20°C to 60°C storage temperature range
- Ethernet Port
- RS485
- TCP IP
- Modbus TCP
- Modbus RTU

Applications

- Control and automation of machines:
  - Fans, pumps, air conditioning, and full HVAC solution
- Control of AC and DC motors

Inputs Overview

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 Imin: 2 to 12 mA Opto-isolation Rated Voltage: 24 Vdc Antipolarity + Overcurrent (220 Ac)
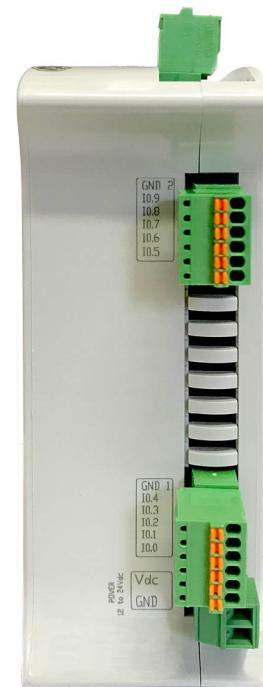
Expandability

ModbusRTU RS485: 32 elements - USB - Ethernet

Mouser Part Numbers

View All Parts

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-10-i-os-modules-nano/