Raspberry Pi PLC Industrial Controllers

Product Overview

11/30/2022

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

Description

DFRobot Raspberry Pi PLC Industrial Controllers contain several communication ports like the CAN bus, double Ethernet port, double RS-485, WiFi, and Bluetooth. These ports provide great flexibility and control. These controllers support Linux or a Raspberry Pi OS. The PLC controllers utilizes Uninterruptible Power Supply (UPS) and a wide range of connections and secures the data and the operating system. The PLC Raspberry Pi has an internal clock that guarantees the current time and date to keep track of the right time.

Features

- Great flexibility and control
- Supports LINUX or Raspberry Pi OS
- Uninterrupted Power Supply (UPS)
- High processing speed
- Multi-process
- Real Time Clock (RTC)

Specifications

- $12V_{DC}$ to $24V_{DC}$ input voltage range
- 30W rated power
- 1.5A maximum current
- 101mm x 701mm x 119.5mm
- 2/4/8GB SRAM
- Communication:
  - I^2C, Ethernet (x2), USB (x4), RS485 (x2), SPI, WiFi, Bluetooth, Serial TTL, CAN, mircoSD, and RTC
- $11.4V_{DC}$ to $25.4V_{DC}$ operating voltage range
- Operating Temperature:
  - 0º to 50ºC with Raspberry OS Lite / 0º to 40ºC with Raspberry OS Desktop

The information contained in this document should be used as a guideline only.

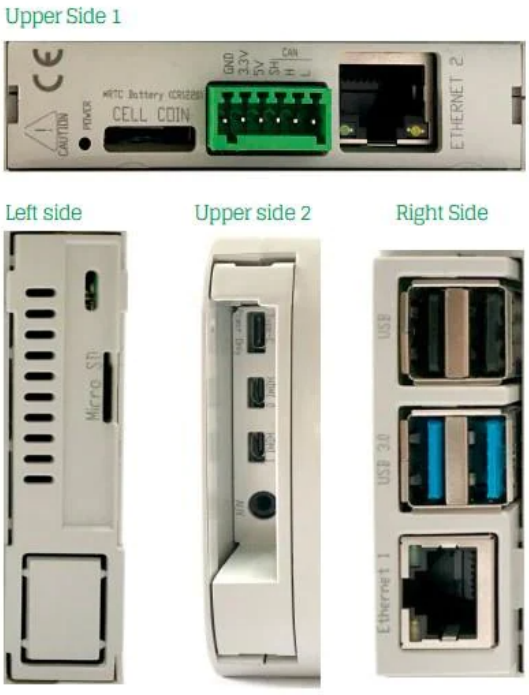
Specifications

- Working Humidity:
  - 10%~90% (non-condensing)
- Storage Temperature: -20°C ~60°C
- Weight: 378g
- I/O Port Voltage Range:
  - Analog I/Os Voltage:
    - 0~10V_{DC}
  - Digital isolation I/Os Voltage:
    - 5~24V_{DC}

Connection Diagram

- IoT Project
- Industrial environment using Linux

Overview



Mouser Part Numbers

View All Parts

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-raspberry-pi-controllers/

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