Datasheet

Arduino Open Source
Programmable Logic Control
PLCARD19RP





Technical Features PLCARD19RP

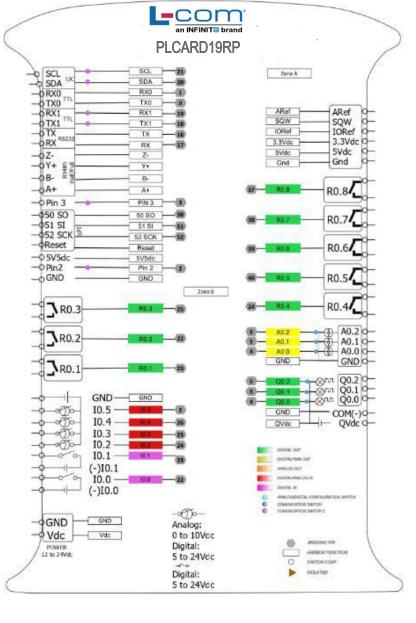
MODEL TYPE	Arduino Open Source PLC
Input Voltage	12 to 24Vdc (Fuse protection (2.5A) Polarity protection)
Input rated voltage	24Vdc
Rated Power	30 W
I max.	1.5A
Size	101x70.1x119.5
Clock Speed	16MHz
Flash Memory	256KB of which 8KB used by bootloader
SRAM	8KB
EEPROM	4KB
Communications	I2C, Ethernet, USB, RS485, RS232, SPI (2x) Rx, Tx (Arduino pins) Max232-Max485-W5500
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 voltage	700Ma
Insulation resistance	$20 \text{M}\Omega$ 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 d 2 times each.	irection
Ambient temperature (operating)	0° to 60°C	
Ambient humidity (operating)	10% to 90% (no condensation	on)
Ambient environment (operating)	With no corrosive gas	
Ambient temperature (storage)	-20° to 60°C	
Power supply holding time	2ms min.	
Weight	378g max.	

INPUTS (x6)	
An/Dig Input10bit (0-10Vcc) - (x4)	0 to 10Vac Input Impedance: 39K Separated PCB ground
Digital Isolated Input (24Vcc) - (x0)	7 to 24Vdc I min: 2 to 12 mA Galvanic Isolation Rated Voltage: 24 Vdc
Interrupt isolated Input HS (24Vcc) * - (x2) *The Interrupt isolated Inputs can also work as Digital isolated Inputs	7 to 24Vdc I min: 2 to 12 mA Galvanic Isolation Rated Voltage: 24 Vdc







Expandability

I2C - 127 elements - Serial Port RS232/RS485

A OUTDUITS (v11)

001P01S (x11)			
Analog Output 8bit (0-1 0Vcc)-(x3) *The Analogo utputs can also work as Digital outputs	U to 10Vac I max: 20 mA Separated PCB ground Rated Voltage: 10Vac		
Digital Isolated Output (24Vcc) - (x0)	5 to 24Vdc I max: 70 mA Galvanic Isolation Diode Protected for Relay Rated Voltage: 24Vdc		
Digital Isolated Output Relay - (x8)	220V Vdc I max: 5A Galvanic Isolation Diode protected for Relay		
	Imax 24Vdc: 410 mA		
PWM Isolated Output 8bit (24Vcc) - (x3) *The PWM outputs can also work as Digital outputs	5 to 24Vdc I max: 70 mA Galvanic Isolation Diode Protected for Relay Rated Voltage: 24Vdc		





Performance Specifications

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

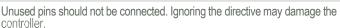
Install Arduino IDE and the LCOM boards

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

- Open the Arduino IDE, version 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: https://l-com.com/downloadables/PLC_Arduino_Package
- · 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 "Industrial Shields" 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.L-Com.com

Warnings



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

LCOM 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 LCOM PLCs are Open Type Controllers. It is required that you install the PLC in a housing, cabinet, or electrical control room. Entry to the housing, cabinet, or electric control room should be limited to authorized personnel.

Inside the housing, cabinet or electric control room, the LCOM 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 PLCs

In case of installation or maintenance of the PLC please follow the instructions marked in the Installation and Maintenance section of 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.
	To identify an earth (ground) terminal in cases where neither the symbol 5018 nor 5019 is explicitly required.
\otimes	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

Technical Support

You can contact with us using the best channel for you:



Techsupportat@infiniteelectronics.com



www.LCOM.com



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