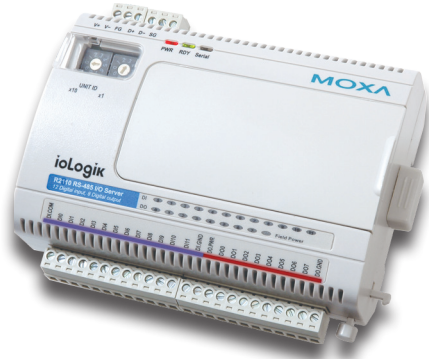


ioLogik R2110

RS-485 remote I/O with 12 digital inputs and 8 digital outputs



- 12-channel 24 VDC digital inputs with DI Event Counter mode, and software selectable filtering time
- 8-channel 24 VDC digital outputs with pulse output mode and software selectable pulse width LED indicators for all I/O channels
- Over-temperature protection (up to 175°C)
- Over-current protection (400-mA/channel)
- Simplify I/O management with MXIO library on either Windows or Linux platform
- Firmware upgradable over RS-485



Specifications

Serial Communication

Interface: RS-485-2w: Data+, Data-, GND (3-contact terminal block)

Serial Line Protection: 15 KV ESD for all signals

Serial Communication Parameters

Parity: None

Data Bits: 8

Stop Bits: 1

Flow Control: None

Baudrate: 1200 to 115200 bps

Protocol: Modbus/RTU

Inputs and Outputs

Digital Inputs: 12 channels

Digital Outputs: 8 channels

Isolation: 3K VDC or 2K Vrms

Digital Input

Sensor Type: Wet Contact (NPN), Dry Contact

I/O Mode: DI or Event Counter

Dry Contact:

On: short to GND

Off: open

Wet Contact (DI to GND):

On: 0 to 3 VDC

Off: 10 to 30 VDC

Common Type: 12 points per COM

Counter Frequency: 50 Hz

Digital Output

Type: Sink

I/O Mode: DO or Pulse Output

Current Rating: 200 mA per channel

Pulse Output Frequency: 50 Hz

Power Requirements

Power Input: 24 VDC nominal, 12 to 48 VDC

Power Consumption: 177 mA @ 24 VDC

Physical Characteristics

Wiring: I/O cable max. 14 AWG

Dimensions: 115 x 79 x 45.6 mm (4.53 x 3.11 x 1.80 in)

Note: Please see pages 14-26 for this product's dimensions diagram.

Weight: 200 g

Mounting: DIN rail or wall

Environmental Limits

Operating Temperature: -10 to 60°C (14 to 140°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Altitude: Up to 2000 m

Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

Standards and Certifications

Safety: UL 508

EMI:

EN 61000-3-2; EN 61000-3-3;

EN 61000-6-4; FCC Part 15, Subpart B, Class A

EMS:

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,

EN 61000-4-5, EN 61000-4-6, EN 61000-4-8,

EN 61000-4-11, EN 61000-6-2

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Green Product: RoHS, CRoHS, WEEE

Note: Please check Moxa's website for the most up-to-date certification status.

MTBF (mean time between failures)

Time: 197,972 hrs

Database: Telcordia (Bellcore)

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Ordering Information

Available Models

ioLogik R2110: RS-485 remote I/O with 12 DIs, 8 DOs, -10 to 60°C operating temperature

Optional Accessories (can be purchased separately)

LDP1602: LCD module with 16 x 2 text display and 5 buttons

Package Checklist

- ioLogik R2110
- Documentation and software CD