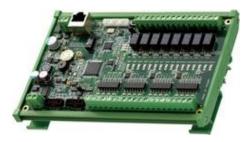
RIO-2010 Modbus/TCP Remote Digital I/O module











- 16x opto-isolated digital inputs
- 8x relay outputs
- 3x Maxim 1-Wire interface
- One 10/100Mbps Ethernet interface
- One isolated RS-485 interface
- Supports Modbus/TCP, Modbus RTU/ASCII
- Ready-to-use Web-based control & monitor
- DIN-rail mount

Hardware Specifications

Network Interface

Type: 1x 10/100Mbps, RJ-45 connector Protection: 1.5KV magnetic isolation

RS-485 interface

Isolation protection: 2500Vrms Direction control: auto, by hardware

Connector: terminal block Baud Rate: 1200 to 460800 bps Parity: None, Even, Odd, Mark, Space

Data Bits: 5, 6, 7, 8 Stop Bit: 1, 1.5, 2

Digital Inputs

Channels: 16

Isolation protection: 2500Vrms

Logical high: 5~24Vdc Logical low: 0~1.5Vdc **LED indicators:** yes

Relay Outputs

Channels: 8

Contact rating: 30VDC@1A or 125VAC@0.5A

LED indicators: yes

Maxim 1-Wire Interface

Channels: 3.

Connector: 3-pin header (VDD, DQ, GND)

General

CPU: 32-bit, M3 series Power input: 9~48VDC

Dimensions(WxHxD): 182x 118x 35.82mm

Operation temperature: 0~70°C

Access Control Guidelines

Default Access Ports:

♦ Modbus/TCP port: 502 **♦ Telnet Console port**: 5001

♦ Http port: 5003

Access through Modbus Protocols

- ♦ Modbus/TCP via LAN interface
- ♦ Modbus/ASCII, Modbus/RTU via RS-485 interface

Supported Modbus Functions

- → Function code 01(0x01): Read Coils
- → Function code 02(0x02): Read Discrete Input
- → Function code 03(0x03): Read Holding Registers
- → Function code 05(0x05): Write Single Coil
- → Function code 15(0x0F): Write Multiple Coils

Access through Http GET/POST Protocols

♦ Refer to user's manual for detailed info.



- ✓ AJAX-enabled demo page for up-and-running Web-based monitoring and controls
- Source code included on CD
- Customized page can be uploaded to the RIO-2010

Access through Telnet/Serial Console

- ♦ Commands: Artila's proprietary commands
- ♦ Support getter and setter commands
- ♦ Refer to user's manual for detailed info.

Windows Utility Functionalities

- ♦ Broadcast search
- ♦ Configuration
- ♦ User Web page conversion