

# Remote I/O Manager, RHIO10



## Features

- Supports 10Base-T Ethernet network connection
- 12 optically isolated digital inputs (0 ~ 24V)
- 10 digital relay outputs, Max. 220V level
- 4 channel 10-bit resolution analog inputs for basic data acquisition
- Basic programmable logic output functions such as AND, OR, NOT and Delay
- Supports both wall and DIN-Rail style mounting
- Management using easy-to-use Windows utility
- Windows DLL support for the easier integration with user program

## Windows Utility, Rhio manager



**The Rhio10**, Remote I/O Manager is simple and easy-to-use Ethernet Data Acquisition System that communicates with PCs and other computers over Ethernet and Internet networks. They utilize the open systems environment of Ethernet to acquire data from any number of remote locations.

The Rhio10 provides 12 optically isolated digital inputs (0 ~ 24V), 10 digital relay outputs of max. 220V level, 4 channel 10-bit resolution analog inputs for basic data acquisition. The digital output operation can be set up with basic programmable logic such as AND, OR, NOT and delay function. The analog inputs are configured either as alarm detection using threshold mechanism or general data acquisition. The input system operates in event-driven mode that allows the unit to send data based on change-of-state or alarm conditions. All the inputs and outputs are protected from damage under power on/off conditions.

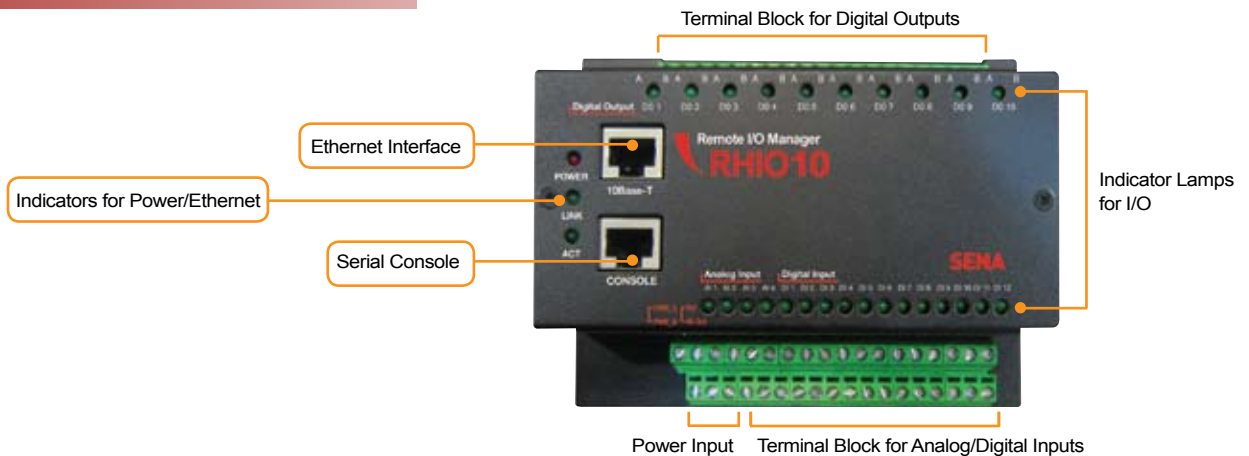
Users may configure the Rhio10 by using easy-to-use Windows-based utility software or by using telnet or serial console. The Rhio Manager, Windows utility also enables users to perform the basic I/O control and monitoring for test purpose. Users may easily write their own application program to communicate with Rhio10 with the help of free MFC libraries for Windows.

Typical application areas include:

- Remote Data Acquisition Systems
- Remote Data Acquisition
- Remote Distributed I/O Systems
- Automated Machine Monitoring
- Industrial Instrumentation
- Discrete Control
- Distributed Data Acquisition System

# Remote I/O Manager, RHIO10

## Panel Layout



## Specifications

### Network Interface

- 10 Base-T Ethernet with RJ45 connector
- Supports static and dynamic IP address

### Digital Input

- Number of channels: 12
- Input type: Voltage
- Input circuitry: Optically isolated photo-coupler
- Input range: 0V ~ ±24V  
OFF: 0V ~ ±1.2V  
ON: ±3.3V ~ ±24V
- Sampling rate: 20ms
- Isolation voltage: 5KV

### Digital Output

- Number of channels: 10
- Output type: Relay
- Rated load: 3A/240VAC
- Insulation resistance: 1000Min(DC500V)
- Electrical life expectancy: 100,000 operations
- Isolation voltage (coil and contact): 4KV
- Reaction within 10ms

### Analog Input

- Number of channels: 4
- Effective resolution: 10-bit
- Input type: Voltage, Direct coupling
- Input range: 0V ~ Aref (Analog reference voltage, 2~5V)
- Sampling rate: 1000 samples/sec

### Protocols

- ARP, IP/ICMP, TCP
- telnet, DHCP client

### Management

- Rhio Manager Windows Utility, Serial Console or Telnet

### Software Support

- Windows MFC DLL library
- I/O configuration, I/O status monitoring/control

### Diagnostic LED

- Power, Link, Act
- Digital Output, 1~10
- Digital Input, 1~12
- Analog Input, 1~4

### Power

- 9V ~ 48VDC, Max. 5W

### Environmental

- Operating temperature: 0°C to 50°C
- Storage temperature: -20°C to 66°C
- Humidity: 90% Non-condensing

### Physical properties

- Dimension (L x W x H) 137 x 111 x 58 (mm)  
5.4 x 4.4 x 2.3 (in.)
- Weight: 730g

### Certification

- FCC, CE, MIC

### Warranty

- 5-year limited warranty

## Ordering Information

### Rhio10

Remote Ethernet I/O Manager

### Includes

- Console Cable
- RJ-45 - DB9 Female Straight Cable Adapter
- DIN-rail Mount Bracket



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### U.S. / Canada / South America

Tel: 408-448-1997 Fax: 408-907-3738

Sales and Support Toll Free (US/Canada): 8669-US-SENA (866-987-7362)

General Information Toll Free (US/Canada): 8668-US-SENA (866-887-7362)

### EU / Africa

Tel: +33 (0)1 53 53 16 29 Fax: +33 (0)1 70 24 70 90

### Asia / Pacific

Tel: +82-2-576-7362 Fax: +82-2-573-7710

### Contact us via E-mail

General Information: [info@sena.com](mailto:info@sena.com)

Sales & Distribution: [sales@sena.com](mailto:sales@sena.com)

Technical Support: [support@sena.com](mailto:support@sena.com)

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[www.sena.com](http://www.sena.com)