

DeviceMaster® EIP-2304

Part Number: 99611-8











KEY FEATURES AND BENEFITS

- DIN rail mounting
- Low profile, compact housing facilitates easy installation and mounting
- Wide DC input voltage range (5-30 volts)
- Redundant power input for fail-safe power
- Wide operating temperature range (-40° to 75°C)
- RS-232/422/485 software selectable interfaces
- DB9 Male serial connectors
- Dual 10/100 Ethernet Ports
- Screw terminal power connector
- 25KV surge protection for serial ports
- Application compatibility supports native COM, TTY, or TCP/IP socket communication modes
- Web-based configuration makes setup and management changes quick and easy
- · PortVision® DX for quick setup and remote management
- Security via SSL & SSH connections, SSL serial data stream encryption
- NEMA TS2 Certified

PRODUCT DESCRIPTION

The DeviceMaster EIP-2304 is the newest model in Comtrol's popular line of DeviceMaster serial device servers. This product can be used to network-enable two serial devices on any Ethernet network and are ideal for applications in:

- · Traffic and Transportation
- Power Utility
- Industrial Automation
- Material Handling
- Any project that requires serial-to-Ethernet communication with DIN rail-based equipment installations

The DeviceMaster EIP-2304 includes DIN-rail mounting and screw

terminal power connections for convenient installation. It offers both wide DC input voltage range (5-30 volts) and wide operating temperature range (-40° to 75°C), so it operates reliably in a variety of challenging physical environments. It provides redundant DC power input for fail-safe power.

The DeviceMaster EIP-2304 is National Electrical Manufacturers Association (NEMA) TS2 compliant. And with 2 Ethernet ports, you can daisy-chain or cascade devices together for a cleaner layout, a faster installation and a more cost-effective solution (no need for multiple Ethernet switches or star topology layouts).

The DeviceMaster EIP supports software selectable RS-232, RS-422 and RS-485 serial communications at standard baud rates from 300bps to 230Kbps.

HARDWARE

Bus Interface Specification

10/100 BASE-T Ethernet

Memory

SDRAM Flash 32 MB 8 MB

Enclosure

UL94-V0 Plastic Installation Method

Network Protocols Available

FtherNet/IP

LED Indicators

Status, Ethernet Port Link and Activity

Enclosure Dimensions 4.6" x 3.9" x 1.8" 116.8 x 99.1 x 45.7 mm

Product Weight

ELECTRICAL SPECIFICATIONS

DC Input Voltage

204.12g

Power Consumption (max)

Power Input Redundancy

Dual Redundant Power Input

ESD Surge Protection

Provides minimum of 25kV protection on all serial lines. All Ethernet components are rated to 1.5kV magnetic surge protection

ENVIRONMENTAL SPECIFICATIONS

Air Temperature

-40 to 75° C System On System Off

Operating Humidity Non-condensing

0% to 95% Altitude

0 to 10000 Feet

3,048 m

Mean time between failures

42.3 Years

SERIAL COMMUNICATIONS

Connector Type DB9M

Number of Ports

Serial Interfaces

RS-232, RS-422, RS-485 2-Wire, RS-485 4-Wire (Master/

Termination Resistor for RS422/485

Software controllable 120Ω termination resistors available for each transmit and receive differential pair on every port. The 1200 termination resistors can be enabled between TX+ and TX- OR RX+ and RX- or both on every

Baud Rates

300 to 230.4Kbps

Receive Buffer 4.5KB Transmit Buffer 4.5KB

Serial Port Control

5, 6, 7 or 8 odd, even mark, space Data Bits Parity

or none Stop Bits* 1.1.5. or 2

Flow Control Hardware, Software or

ETHERNET SPECIFICATIONS

Number of Ports

10/100Mhns

Connector Types RJ45F Auto MDI/MDI-X

LFD

Ethernet Link (Green) Ethernet Activity (Amber)

Ethernet Specific Features

Ethernet packet switching, Auto Negotiation, Link/Activity Status LED

Network Protocols

ARP, BOOTP, DHCP/RARP, HTTP, HTTPS, SSH, SSL/TLS, SNMP (MIB-II), Telnet, and TFTP, and supports IP multicast data transmission

ETHERNET/IP FEATURES

Supported PLC's

Including but not limited to:
Allen Bradley: ControlLogix, CompactLogix, FlexLogix,
SoftLogix, SLC 5/05, PLC-5, and MicroLogix Models

Web Page Configuration

Three methods of receive communication to the PLC – Write-to-Tag/File, Write-to-Tag/File-Synced, and Polling · Connectivity - Ethernet/IP to serial and Ethernet TCP/IP

raw/ASCII devices

Connectivity to high-speed devices. Supports message rates as high as 50 updates per second when receive mode is configured to Write-to-Tag/File.

Vendor Specific CIP objects – configuration, data

transfer, and statistics

Large received packet support – up to 1518 bytes serial and 2048 bytes Ethernet TCP/IP

· Received packet size control - truncate or drop

oversized packets

Message Throttling – ensures PLC can process each received data packet

Intelligent packet identification – start and end of

transmission character detection/appending

Diagnostics

Electronic Data Sheets

Sample PLC Programs

FEATURES

SNMP Support

Other Software Features

PortVision DX remote management

Manufacturer's Warranty

EXPORT INFORMATION

Packaged Shipping Weight

0.85 lbs

386g Package Dimensions

6 3/4" x 5 7/8" x 3 1/2 171.45 x 149.225 x 88.9 mm

UPC Code

Country of Origin

ECCN 5A992

Schedule B Number

8471.80.1000

REGULATORY STANDARDS

FCC Part 15 Subpart B: Class A limit Canadian EMC Requirements: ICES-003 European Standard EN61000-6-4 European Standard EN55022 AS/NZS CISPR 22

Immunity

Imunity European Standard EN61000-6-2 European Standard EN55024 IEC 1000-4-2/EN61000-4-2: ESD IEC 1000-4-3/EN61000-4-3: RF IEC 1000-4-4/EN61000-4-4: Fast Transient/Burst

IEC 1000-4-5/EN61000-4-5: Surge IEC 1000-4-6/EN61000-4-6: Conducted Disturbance IEC 1000-4-8/EN61000-4-8: Magnetic Field

IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations

Safety

UL 61010-1, UL 61010-2-201 CSA C22.2 No. 61010-1-12 CSA C22.2 No. 61010-2-201:14

REGULATORY APPROVAL MARKS

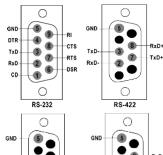


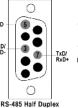




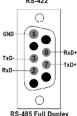


PIN ASSIGNMENTS





TxD/ RxD-



* Stop bit 1.5: Supported only when used with 5 data bits



Warranty Information Sales Support

Comtrol offers a 30-day +1.763.957.6000 satisfaction guarantee and sales@comtrol.com 5-year limited warranty.

Technical Support +1.763.957.6000 www.comtrol.com/ support

Email, FTP, and Web Support info@comtrol.com ftp.comtrol.com www.comtrol.com