

DeviceMaster® EIP-2101

Part Number: 99601-9



KEY FEATURES AND BENEFITS

- DIN rail mountable
- One DB9 male serial port (RS-232/422/485) with a minimum of 25KV of surge protection
- Variable power input – 5-30VDC with a screw terminal connector
- One RJ45 Ethernet port
- Provide PLC connectivity – to standard EtherNet/IP™ serial devices
- Wide industrial operating temperature range (-40° to 75°C)
- Software Controllable integrated 120Ω Termination Resistor for both the Transmit and Receive side in RS-422/485 Mode
- PortVision DX – configure network settings for the DeviceMaster and monitor status, update firmware and if necessary, resolve issues remotely
- Security features – SSL & SSH management, SSL serial data stream encryption

PRODUCT DESCRIPTION

The DeviceMaster EIP-2101 1-Port DB9 1E is the newest models in Comtrol's popular line of DeviceMaster serial device servers. These products 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-2101 DB9 1-Port includes DIN-rail mounting and screw terminal power connections for convenient installation. It offers both wide DC input voltage range (6-30 volts) and wide operating temperature range (-37° to 74°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-2101 DB9 1-Port is National Electrical Manufacturers Association (NEMA) TS2 compliant.

The DeviceMaster EIP-2101 supports RS-232, RS-422 and RS-485 serial communications at standard baud rates from 300bps to 230Kbps. The DeviceMaster RTS 1-Port 1E offers one DB9 serial connections with a 10/100 Ethernet connection to the network, while the 1-Port 1E includes a network switch to provide two 10/100 Ethernet connections.

DEVICEMASTER SPECIFICATIONS

HARDWARE

Bus Interface Specification

10/100 BASE-T Ethernet

Memory

32MB SDRAM, 8MB Flash

Enclosure

UL94-V0 Plastic

Installation Method

DIN rail (35mm)

LED Indicators

Status, Ethernet Port Link/Activity

Dimensions

4.52" x 3.9" x 0.9"
114.81mm x 99.1mm x 22.86 mm

Product Weight

0.25lbs
113.4g

ELECTRICAL SPECIFICATIONS

Input Voltage Requirements

5-30VDC

Power Consumption (Max.)

1.5 Watts

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

System On -40° to 75°C
System Off -40° to 85°C

Operating Humidity

0% to 95%

Altitude

0 to 10,000 Ft
0 to 3,048 m

Mean time between failures

61.4 Years

SERIAL COMMUNICATIONS

Connector Type

DB9M

Number of Ports

1

Software Interfaces

RS-232
RS-422
RS-485, 4-wire, Master
RS-485, 4-wire, Slave
RS-485, 2-wire

Termination Resistor for RS422/485

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

Baud Rates

300 to 230 Kbps
Receive Buffer 4.5KB
Transmit Buffer 4.5KB

Device Driver Data Control

Data Bits * 5, 6, 7 or 8
Parity ** Odd, Even, Mark, Space or None
Stop Bits *** 1, 1.5, or 2
Flow Control Hardware, Software or none

* Data bits 5, 6: Supported only in RFC2217 and socket mode

* Mark, Space parity: Supported only in RFC2217 and socket mode

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

ETHERNET SPECIFICATIONS

Number of Ports

1

Speed

10/100Mbps

Connector Type

RJ45F Auto MDI/MDI-X

LED

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, ICMP, RFC 1006 (ISO over TCP), SNMP (MIB-II), TCP/IP & UDP socket services, Telnet, and TFTP, and supports IP multicast data transmission

ETHERNET/IP FEATURES

Supported PLCs

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

Web Page Configurations

- 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

Yes

Electronic Data Sheets (EDS)

Yes

Sample PLC Programs

Yes

FEATURES

SNMP Support

Monitoring Only

Other

Lowest Latency
NS-Link COM/TTY port redirector
TCP/IP & UDP Socket Services
Telnet/RFC2217 COM Port control
PortVision DX remote management

Manufacturer's Warranty

5 Years

EXPORT INFORMATION

Packaged Shipping Weight

0.55lbs
249g

Package Shipping Dimensions

5-11/16" x 5-11/16" x 3-3/8"
144.46 x 144.46 x 85.73mm

UPC Code

7-56727-99601-9

Country of Origin

USA

ECCN

5A992

Schedule B Number

8471.80.1000

DEVICE DRIVERS

Linux

Microsoft® Windows® XP through Windows 10

REGULATORY STANDARDS

Emissions

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

European Standard EN61000-6-2

European Standard EN55024:

- IEC1000-4-2/EN61000-4-2: ESD
- IEC1000-4-3/EN61000-4-3: RF
- IEC1000-4-4/EN61000-4-4: Fast Transient/ Burst
- IEC1000-4-5/EN61000-4-5: Surge
- IEC1000-4-6/EN61000-4-6: Conducted Disturbance
- IEC1000-4-8/EN61000-4-8: Magnetic Field
- IEC1000-4-11/EN61000-4-11: Voltage 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

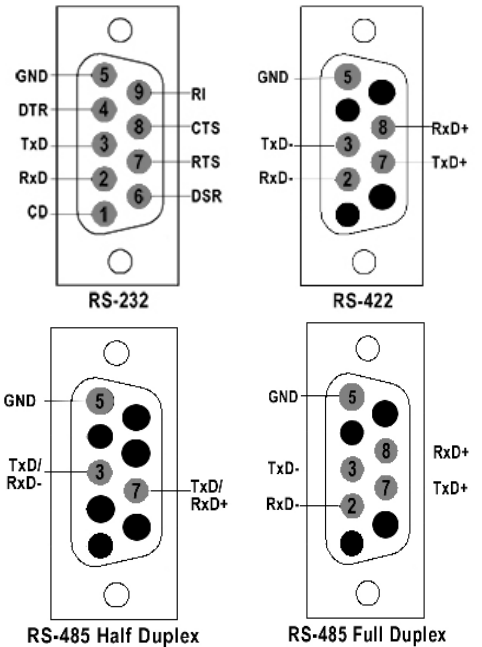
Other

NEMA TS2 Compliant
RoHS2 compliant under CE

REGULATORY APPROVALS



PINOUT DIAGRAMS



Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support

+1.763.957.6000
sales@control.com

Technical Support

+1.763.957.6000
www.control.com/
support

Email, FTP, and Web Support

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