

Item no.: 384625

MGATE EIP3170I-T - 1-port EtherNet/IP-to-DF1 gateway with 2 kV isolation, -40 to 75°C operating temperature

from 438,03 EUR

Item no.: 384625
shipping weight: 0.40 kg
Manufacturer: MOXA

Product Description

Introduction MGate™ EIP3000 gateways provide Ethernet/IP-to-DF1 protocol conversion for users who need to connect Allen Bradley PLCs to an EtherNet/IP network. With a number of innovative functions, the MGate™ Series overcomes the difficulties of connecting between legacy serial devices and SCADA software. Both 1 and 2-port gateways are available for use with different-sized control networks. Protocol Conversion between DF1 and EtherNet/IP By supporting PCCC objects on CIP, the MGate™ EIP3000 can communicate seamlessly with SCADA software such as RSLinx. For users who develop control software based on EtherNet/IP, the MGate EIP3000 offers the standard interface for connection. Support for Multiple EtherNet/IP Connections MGate™ EIP3000 gateways support up to 16 EtherNet/IP clients and servers simultaneously. Each client can send up to 16 requests at a time, and the multiple connection capability can help establish redundancy for more complex control systems. Windows Utility for Easy Configuration and Traffic Monitoring Moxa provides a user-friendly Windows utility with multi-language support. The utility supports a traffic monitoring function for EtherNet/IP and DF1 protocols, and not only logs events initiated by the gateway, but also records all commands and responses that pass through the gateway. The utility helps users determine the root cause of failures and performance bottlenecks. Serial Redirector Function Maintains Original Master/Slave Connections The serial redirector function allows the commands of a serial master (command initiator) to be redirected to the serial slave (command executor) on another port. In addition, a serial master can operate simultaneously with EtherNet/IP masters without changing the DF1 architecture or software. With the serial redirector function, MGate™ EIP3000 gateways can establish redundant control of legacy slave devices that were originally designed to be controlled by a single serial master. ProCOM Implements Control via COM Port Mapping Each MGate™ EIP3000 gateway supports virtual serial ports for the remote PC. You can connect to the MGate™ EIP3000 through the COM port by using Moxa's Real COM driver, with the actual physical connection over the Ethernet. The gateway supports up to four virtual COM port connections and offers greater flexibility when designing redundant control systems. Pull High/Low Resistors and Terminator Selection When using termination resistors to prevent serial signal reflection, it is important to set the pull high/low resistors correctly so that the electrical signal is not corrupted. Since no set of resistor values is universally compatible with all environments, the EIP3000 has DIP switches on the bottom panel for setting the termination and pull high/low resistor values. Built-In Isolation Complex device networks that incorporate high amperage devices could be subject to electrical signal distortion from electrical discharges, magnetic noise, or common mode transients. MGate™ Series products solve this problem by using built-in optical isolation. Specifications Ethernet Interface- 10/100BaseT(X) Ports (RJ45 connector): 2 Auto MDI/MDI-X connection- Magnetic Isolation Protection: 1.5 kV (built-in) Ethernet Software Features- Industrial Protocols: EtherNet/IP (PCCC)- Configuration Options: MGate Manager, Telnet Console- Management: ARP, DHCP Client, SNMPv1, TCP/IP, Telnet, UDP- MIB: RFC1213, RFC1317 Serial Interface- No. of Ports: MGate EIP3170 Series: 1 MGate EIP3270 Series: 2- Connector: MGate EIP3170 Series: DB9 male for RS-232, Terminal block for RS-422/485 MGate EIP3270 Series: 2 x DB9 male- Serial Standards: RS-232, RS-422- Baudrate: 1200 bps to 921.6 kbps- Data Bits: 8- Parity: None, Even, Odd- Stop Bits: 1, 2- Flow Control: RTS/CTS, DTR/DSR (RS-232 only)- Isolation: MGate EIP3170I: 2 kV (I models) MGate EIP3170I-T: 2 kV (I models) MGate EIP3270I: 2 kV (I models) Serial Signals- RS-232: Tx, Rx, D, RTS, CTS, DTR, DSR, DCD, GND- RS-422: Tx+, Tx-, Rx+, Rx-, GND Serial Software Features- Industrial Protocols: DF1 DF1 (Transparent)- Mode: Full duplex- Max. No. of Client Connections: 8 Power Parameters- Input Voltage: 12 to 48 VDC- Input Current: MGate EIP3170I/EIP3270 Series: 435 mA @ 12 VDC MGate EIP3170I Series: 555 mA @ 12 VDC MGate EIP3270I Series: 510 mA @ 12 VDC Relays- Contact Current Rating: Resistive load: 1 A @ 30 VDC Physical Characteristics- Housing: Plastic top cover, metal bottom plate- IP Rating: IP30- Dimensions (with ears): 29 x 89.2 x 124.5 mm (1.14 x 3.51 x 4.90 in)- Dimensions (without ears): 29 x 89.2 x 118.5 mm (1.14 x 3.51 x 4.67 in)- Weight: MGate EIP3170 Series: 360 g (0.79 lb) MGate EIP3270 Series: 380 g (0.84 lb) Environmental Limits- Operating Temperature: Standard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)- Storage Temperature (package included): -40 to 85°C (-40 to 185°F)- Ambient Relative Humidity: 5 to 95% (non-condensing) Standards and Certifications- Safety: EN 60950-1, UL 508- EMI: CISPR 32, FCC Part 15B Class A- EMC: EN 55032/35- EMS: IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 4 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11- Hazardous Locations: ATEX, Class I Division 2, IECEx - Maritime: MGate EIP3170: DNV-GL, MGate EIP3170-T: DNV-GL, MGate EIP3170I: DNV-GL, MGate EIP3170I-T: DNV-GL- Freefall: IEC 60068-2-32- Shock: IEC 60068-2-27- Vibration: IEC 60068-2-6, IEC 60068-2-64 MTBF- Time: MGate EIP3170: 1,344,456 hrs MGate EIP3170-T: 1,344,456 hrs MGate EIP3170I: 1,344,456 hrs MGate EIP3170I-T: 1,344,456 hrs MGate EIP3270: 1,204,573 hrs MGate EIP3270-T: 1,204,573 hrs MGate EIP3270I: 1,204,573 hrs Standards: Telcordia SR332

Specifications

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prices and availability

