Item no.: 384724

MGATE 5103-T - 1-port ModbusEtherNetIP-to-PROFINET gateway

from **622,72 EUR**

Item no.: 384724
shipping weight: 0.60 kg
Manufacturer: MOXA

📄 Product Description

IntroductionThe MGate 5103 is an industrial Ethernet gateway for converting Modbus RTU/ASCII/TCP or EtherNet/IP to PROFINET-based network communications. To integrate existing Modbus devices onto a PROFINET network, use the MGate 5103 as a Modbus master/slave or EtherNet/IP adapter to collect data and exchange data with PROFINET devices. The latest exchange data will be stored in the gateway. The gateway will convert stored Modbus or EtherNet/IP data into PROFINET packets so the PROFINET IO Controller can control or monitor field devices.Easy Configuration via Web ConsoleThe MGate 5103 Series comes with an illustrated Quick Setup guide designed to make configuration easy. With Quick Setup, you can easily access protocol conversion modes and finish the configuration in a few steps. The MGate 5103 Series also supports a GSDML export function. GSDML files can be imported into PROFINET PLCs to save time on PLC configuration. Modbus RTU/ASCII/TCP Protocol Traffic MonitorMGate 5103 gateways support Modbus RTU/ASCII/TCP Protocol Traffic Monitor for easy troubleshooting, especially during the installation stage. Communication issues could be caused by incorrect software parameters, such as slave IDs and register addresses, that were entered incorrectly, or an incorrect command configuration. With Modbus RTU/ASCII/TCP Protocol Traffic Monitor, you can check the captured data and easily identify the root cause.Maintenance FunctionsMGate 5103 gateways support a system log function that records events in the MGate; users can easily review log data remotely through the web console. The gateways also support status monitoring and fault protection functions. The status monitoring function notifies a PLC/DCS/SCADA system when a Modbus device gets disconnected or does not respond, in which case the process PLC/DCS gets the status of each end device and then issues alarms to notify operators.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: PROFINET IO Device, Modbus TCP Client (Master), Modbus TCP Server (Slave), EtherNet/IP Adapter- Configuration Options: Web Console (HTTP/HTTPS), Device Search Utility (DSU), Telnet Console- Management: ARP, DHCP Client, DNS, HTTP, HTTPS, SMTP, SNMP Trap, SNMPv1/v2c/v3, TCP/IP, Telnet, SSH, UDP, NTP Client- MIB: RFC1213, RFC1317- Time Management: NTP ClientSecurity Functions- Authentication: Local database- Encryption: HTTPS, AES-128, AES-256, SHA-256- Security Protocols: SNMPv3, SNMPv2c Trap, HTTPS (TLS 1.3)Serial Interface- Console Port: RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)- No. of Ports: 1- Connector: DB9 male- Serial Standards: RS-232/422/485- Baudrate: 50 bps to 921.6 kbps- Data Bits: 7, 8- Parity: None, Even, Odd, Space, Mark- Stop Bits: 1, 2- Flow Control: RTS Toggle (RS-232 only), RTS/CTS- RS-485 Data Direction Control: ADDC® (automatic data direction control)- Pull High/Low Resistor for RS-485: 1 kilo-ohm, 150 kilo-ohms- Terminator for RS-485: 120 ohms- Isolation: 2 kV (built-in)Serial Signals- RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND- RS-422: Tx+, Tx-, Rx+, Rx-, GND- RS-485-2w: Data+, Data-, GND- RS-485-4w: Tx+, Tx-, Rx+, Rx-, GNDSerial Software Features- Configuration Options: Serial Console- Industrial Protocols: Modbus RTU/ASCII Master, Modbus RTU/ASCII SlaveModbus RTU/ASCII- Mode: Master, Slave- Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23- Max. No. of Commands: 128- Input Data Size: 512 bytes- Output Data Size: 512 bytesModbus TCP- Mode: Client (Master), Server (Slave)- Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23- Max. No. of Client Connections: 16- Max. No. of Server Connections: 32- Max. No. of Commands: 128- Input Data Size: 512 bytes- Output Data Size: 512 bytesPROFINET- Mode: IO Device- Max. No. of IO Controller Connections: 1 (for read/write)- Input Data Size: 512 bytes- Output Data Size: 512 bytesEtherNet/IP- Mode: Adapter- CIP Objects Supported: Identity, Message Router, Assembly, Connection Manager, TCP/IP interface, Ethernet link, Port- Max. No. of Scanner Connections: 1 (for read-only), 1 (for read/write)- Input Data Size: 496 bytes- Output Data Size: 496 bytesMemory- microSD Slot: Up to 32 GB (SD 2.0 compatible)Power Parameters- Input Voltage: 12 to 48 VDC- Input Current: 455 mA @ 12 VDC- Power Connector: Screw-fastened Euroblock terminalRelays- Contact Current Rating: Resistive load: 2 A @ 30 VDCPhysical Characteristics- Housing: Metal- IP Rating: IP30- Dimensions: 36 x 105 x 140 mm (1.42 x 4.14 x 5.51 in)- Weight: 507 g (1.12 lb)Environmental Limits- Operating Temperature: MGate 5103: 0 to 60°C (32 to 140°F), MGate 5103-T: -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- EMC: EN 55032/24- EMI: CISPR 32, FCC Part 15B Class BEMS:- IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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: 2 kV; Signal: 2 kV- IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m- IEC 61000-4-8 PFMF- Hazardous Locations: ATEX, Class I Division 2, IECEx- Freefall: IEC 60068-2-32- Shock: IEC 60068-2-27- Vibration: IEC 60068-2-6, IEC 60068-2-64MTBF- Time: 859,422 hrs- Standards: Telcordia SR332

📄 Specifications

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All details, up-to-date prices and availability