Item no.: 384608
MGATE 5114 - 1-port ModbusIEC101 to IEC104 gateway

from **503,03 EUR**

Item no.: 384608
shipping weight: 0.50 kg
Manufacturer: MOXA

🗎 Product Description

IntroductionThe MGate 5114 is an industrial Ethernet gateway with 2 Ethernet ports and 1 RS-232/422/485 serial port for Modbus RTU/ASCII/TCP, IEC 60870-5-101, and IEC 60870-5-104 network communications. By integrating commonly used power protocols, the MGate 5114 provides the flexibility needed to fulfill the various conditions that arise with field devices that use different communications protocols to connect to a power SCADA system. To integrate Modbus or IEC 60870-5-101 devices onto an IEC 60870-5-104 network, use the MGate 5114 as a Modbus master/client or IEC 60870-5-101 master to collect data and exchange data with IEC 60870-5-104 systems. Easy Configuration via Web ConsoleThe MGate 5114 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. Modbus RTU/ASCII/TCP Protocol Traffic MonitorMGate 5114 Series gateways support Modbus RTU/ASCII/TCP, IEC 60870-5-101, and IEC 60870-5-104 Protocol Traffic Monitor for easy troubleshooting, especially during the installation stage. It is worth mentioning that traffic logs can be viewed in the popular troubleshooting tool, Wireshark. With this feature, you can easily analyze traffic to determine the root cause of a problem. Maintenance FunctionsMGate 5114 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 PSCADA system when a device gets disconnected or does not respond, in which case the PSCADA system 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: Modbus TCP Client (Master), Modbus TCP Server (Slave), IEC 60870-5-104 Client, IEC 60870-5-104 Server- 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: Even, Mark, None, Odd, Space- 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- Industrial Protocols: Modbus RTU/ASCII Master, Modbus RTU/ASCII Slave, IEC 60870-5-101 Master (Balanced/Unbalanced), IEC 60870-5-101 Slave (Balanced/Unbalanced)- Configuration Options: Serial ConsoleModbus RTU/ASCII- Mode: Master, Slave- Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23- Max. No. of Commands: 128Modbus TCP- Mode: Client (Master), Server (Slave)- Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23- Max. No. of Client Connections: 32- Max. No. of Server Connections: 32- Max. No. of Commands: 128IEC 60870-5-104- Mode: Client, Server- Max. No. of Client Connections: 32- Max. No. of Server Connections: 32- Max. No. of Information Objects: 2000 pointsIEC 60870-5-101- Mode: Master (Balanced/Unbalanced), Slave (Balanced/Unbalanced)- Max. No. of Master Connections: 1- Max. No. of Slave Connections: 1 (Balanced), 31 (Unbalanced)- Max. No. of Information Objects: 2000 pointsMemory- 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 5114: 0 to 60°C (32 to 140°F) MGate 5114-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 B- EMS: 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: 1,140,815 hrs- Standards: Telcordia SR332

🗎 Specifications

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