

Item no.: 384609

MGATE 5114-T - 1-port Modbus IEC101 to IEC104 gateway, -40 to 75C operating temperature

from **660,90 EUR**

Item no.: 384609
shipping weight: 0.40 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 communication. By integrating common power supply protocols, the MGate 5114 provides the flexibility to fulfil the various conditions encountered by field devices that use different communication protocols to connect to a SCADA system for power supply. To integrate Modbus or IEC 60870-5-101 devices into an IEC 60870-5-104 network, use the MGate 5114 as a Modbus master/client or IEC 60870-5-101 master to collect and exchange data with IEC 60870-5-104 systems. Easy configuration via the web console The MGate 5114 series comes with an illustrated Quick Setup Guide to make configuration easy. With Quick Setup, you can easily access the protocol conversion modes and complete the configuration in a few steps. Modbus RTU/ASCII/TCP Protocol Traffic Monitor The MGate 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 phase. It is worth noting that the traffic logs can be viewed using the popular troubleshooting tool, Wireshark. This feature makes it easy to analyse traffic to determine the cause of a problem. Maintenance functions MGate 5114 gateways support a system log function that records events in the MGate; users can easily check the log data remotely via the web console. The gateways also support status monitoring and fault protection functions. The status monitoring function notifies a PSCADA system if a device becomes disconnected or unresponsive. In this case, the PSCADA system receives the status of each terminal device and then issues alarms to notify operators. MGate 5114-T MGate 5114 series 1-Port Modbus/IEC101 to IEC104 Gateway, -40 to 75°C operating temperature Ethernet interface 10/100BaseT(X) ports (RJ45 connector): 2, Auto MDI/MDI-X connector 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 TFTP SMT PTP SNMP Trap SNMP v1/v2c/v3 TCP/IP Telnet SSH UDP NTP Client-MIB: RFC1213, RFC1317-Time management: NTP Client Security functions-Authentication: Local database-Encryption: HTTPS AES-128 AES-256 SHA-256-Security protocols: SNMP v3 SNMP v2c Trap HTTPS (TLS 1.3) Serial interface-Console port: RS-232 (Tx, Rx, D, GND), 8-pin RJ45 (115200, n, 8, 1)-Number of ports: 1-Connector: DB9 connector-Serial standards: RS-232/422/485-Baud rate: 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: Automatic Data Direction Control (ADDC)-Pull High/Low Resistor for RS-485: 1 kilo-ohm, 150 kilo-ohm-Terminator for RS-485: 120 ohm-Isolation: 2 kV (built-in) Serial signals RS-232: Tx, Rx, D, 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-, GND-Serial software functions-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 console Modbus RTU/ASCII Mode: Master, Slave Supported functions: 1, 2, 3, 4, 5, 6, 15, 16, 23 Max. Number of commands: 128 Modbus TCP-Mode: Client (master), server (slave)-Supported functions: 1, 2, 3, 4, 5, 6, 15, 16, 23- Max. Max. number of client connections: 2-32 Max. Max. number of server connections: 32- Max. Number of information objects: 2000 points IEC 60870-5-101-Mode: Client, Server- Max. Number of client connections: 32- Max. Number of server connections: 32- Max. Number of information objects: 2000 points IEC 60870-5-101-Mode: Master (balanced/unbalanced) Slave (balanced/unbalanced)-Max. number of master connections: 1 Number of master connections: 1 (balanced), 31 (unbalanced)-Max. number of information objects: 2000 points Number of information objects: 2000 points Memory microSD slot: Up to 32 GB (SD 2.0 compatible) Performance parameters Input voltage: 12 to 48 VDC Input current: 455 mA @ 12 VDC Power connection: Screwable Euroblock terminal Relay Current carrying capacity of the contacts: Resistive load: 2 A @ 30 VDC Physical properties Housing: Metal Protection class: IP30 Dimensions: 36 x 105 x 140 mm (1.42 x 4.14 x 5.51 in) Weight: 507 g (1.12 lb) Environmental conditions Operating temperature: -40 to 75°C (-40 to 167°F) Storage temperature (including packaging): -40 to 85°C (-40 to 185°F) Ambient relative humidity: 5 to 95% (non-condensing) Standards and certifications-EMC: EN 55032/35-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-safety: EN 62368-1, UL 508-Explosive atmospheres: ATEX Class I Division 2 IECEx-Free fall: IEC 60068-2-32-Shock: IEC 60068-2-27-Vibration: IEC 60068-2-6, IEC 60068-2-64 MTBF: 1.140,815 hours Standards: Telcordia SR332

Specifications

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