

Item no.: 384605

MGATE 5109-T - Modbus to DNP3 gateway with 1 connection, operating temperature -40 to 75 °C

from **650,61 EUR**

Item no.: 384605
shipping weight: 0.50 kg
Manufacturer: MOXA



Product Description

Whether one or multiple serial ports, Moxa's Modbus TCP gateway solutions convert data on networks between Modbus RTU/ASCII, Modbus TCP, DNP3, CANopen, J1939, PROFIBUS, BACnet/IP, IEC 101/104 and IEC 61850, making configuration, troubleshooting and conversion quick and easy.

1-Port Modbus-to-DNP3 gateway, -40 to 75°C operating temperature

Ethernet interface 10/100BaseT(X) ports (RJ45 connection)- 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)- DNP3 TCP Master- DNP3 TCP Outstation

Configuration options- Web Console (HTTP/HTTPS)- 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- SNMPv3- SNMPv2c

Trap

HTTPS (TLS 1.3)

Serial interface

Console connection- RS-232 (Tx, Rx, GND), 8-pin RJ45 (115200, n, 8, 1)

Number of ports

Ports- 1

Connector- DB9 connector

Serial standards- RS-232/422/485

Baud rate- 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- Automatic Data Direction Control (ADDC)

Pull High/Low Resistor for RS-485- 1 Kiloohm, 150 Kilo-Ohm

Terminating Resistor for RS-485- 120 Ohms

Isolation- 2 kV (built-in)

Serial Signals

RS-232- Tx, Rx, 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

Configuration options- Serial console

Industrial protocols- Modbus RTU/ASCII

Master- Modbus RTU/ASCII Slave- DNP3 Serial Master- DNP3 Serial Outstation

Modbus RTU/ASCII Mode- Master, Slave

Supported functions- 1, 2, 3, 4, 5, 6, 15, 16, 23

Max. number of commands - 100

Number of commands- 100

Modbus TCP

Supported functions- 1, 2, 3, 4, 5, 6, 15, 16, 23

Mode- Client (master), Server (slave)

Max. number of client connections - 1, 2, 3, 4, 5, 6, 15, 16, 23

Number of client connections- 16

Max. number of server connections- 32

Max. number of commands - 100

Max. number of commands- 100

DNP3 (Transparent)

Max. number of master connections - 100

Max. number of outstation connections- 32

Max. number of outstation connections- 32

DNP3 Serial Mode- Master, Outstation

Max. number of master connections - 100

Max. number of master connections- 1

Max. number of outstation connections- 31

Internal outstation database- Binary inputs: 8192 points- Analogue inputs: 2048 points- Counters: 2048 points- Binary outputs: 8192 points- Analogue outputs: 2048 points- Binary input events: 1024- Analogue input events: 1024- Counter events: 1024

DNP3 TCP/UDP Mode- Master, outstation

Max. number of master connections- 1

Max. number of outstation connections- 32

Internal master database (MGate as DNP3 master)- Binary inputs: 8192 points (256 points per outstation)- Binary outputs: 8192 points (256 points per outstation)- Analogue inputs: 2048 points (64 points per outstation)- Analogue outputs: 2048 points (64 points per outstation)- Counters: 2048 points (64 points per front-door station)

Internal front-door station database- Binary inputs: 8192 points- Analogue inputs: 2048 points- Counters: 2048 points- Binary outputs: 8192 points- Analogue outputs: 2048 points- Binary input events: 1024- Analogue input events: 1024- Counter events: 1024

Memory

microSD slot- Up to 32 GB (SD 2.0 compatible)

Power supply parameters

Input voltage- 12 to 48 VDC

Input current- 455 mA @ 12 VDC

Power supply connection- Screwable Euroblock terminal

Relay

Contact current measurement- 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 (in packaging)- -40 to 85°C (-40 to 185°F)

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 PFM

Safety- EN 62368-1- UL 508

Hazardous areas- 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

Time- 888,926 hours

Standards- Telcordia SR332

Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability

