

ModGate 413

4-Port Industrial Modbus Gateway

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| Hardware | |
| Processor | ARM 9 166 MHz |
| I/O Controller | 16C950 or compatible |
| Memory | 16MB SDRAM, 2 MB Flash |
| Connector Type | DSUB 9 male for serial Port, RJ45 for Ethernet |
| Interface | |
| Ethernet Interface | Auto-detecting 10BaseT/100BaseTx |
| Protocols | TCP/IP, DHCP, ICMP, HTTP, DNS |
| Serial Interface | RS232/422/485 selected by software |
| No. of Port | 4, Speed up to 115200 bps |
| Available Modes | RS232 full duplex RS422 full duplex RS485 4 wire, full duplex RS485 2 wire, half duplex, with echo RS485 2 wire, half duplex, without echo |
| Signals | RS232: Tx/D, Rx/D, RTS, CTS, DTR, DSR, DCD, RI, GND RS422: Tx+/-, Rx+/-, GND RS485 2 wire: Data+/-, GND RS485 4 wire: Tx+/-, Rx+/-, GND |
| RS485 Data Control | Controlled by ART (Automatic Receive Transmit control) |
| Performance | |
| Speed | Up to 115200 bps |
| Parity | None, even, odd |
| Data Bits | 7, 8 |
| Stop Bits | 1, 2 |
| IRQ | None |
| I/O Address | None |
| Operating Modes | |
| Modbus RTU/ASCII | Modbus RTU or Modbus ASCII protocol selected for each serial port individually |
| DirectMappingMode | Direct mapping of Modbus addresses to serial ports or TCP connections |
| PromiscuousMode | Mapping of serial ports to TCP connections |
| Special Features | |
| Installation | Dip switches set a defined temporary IP Address to contact via WEB Browser |
| Operating Mode | Promiscuous Mode : Messages received from the network are sent to the serial port, messages from the serial port are sent to the connected network host. Mapped Mode : Received messages are scanned for their target address. This address is found in a table, the message is sent to the defined connection (serial or TCP). |
| Modbus Master Multiplexing | An extension to the standard. Slaves on serial lines may answer requests from multiple masters. The masters connect to ModGate 413 by Modbus/TCP or from other serial lines. |
| Configuration | Configuration over WEB Browser |
| Art | Automatic Receive Transmit control for RS485 |
| DNS | Domain Name Server support |
| Serial Interface | Serial Interface configurable by software |
| Firmware | Firmware update over WEB Browser |
| LEDs | LEDs for Power, serial Tx, Rx, Ethernet Link, Speed |
| Security | |
| Password Access | Webinterface is password protected. The password can be changed in the Webinterface. |
| Power and Environment | |
| Power Requirements | 9 - 30V DC, 350mA @ 12V |
| Power supply Adapter | 12V DC, 1A. Connected by Terminal block |
| Operating Temp. | 0°C - 55°C |
| Storage Temp. | -20°C - 85°C |
| Case | SECC sheet metal 1mm |
| Dimension | 167×99×29 mm ³ (W×L×H); 189×102×30 mm ³ with DB9 connector and DIN-Rail mounting kit |

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| Weight | 400g |
| Approvals | |
| EMC | FCC Class A, CE Class A |
| Environment | RoHS |
| Ordering Information | |
| Art. No. | 6701 |
| Product Name | ModGate 413 |
| Packing List | <ul style="list-style-type: none"> ◆ ModGate 413 ◆ Power supply adapter 12V, 1000mA ◆ CD-ROM with user manual |
| Optional Accessories | <ul style="list-style-type: none"> ◆ DK 35A (Art No. 662) - DIN-Rail mounting kit |

Overview

Modgate 413 is an industrial-strength Modbus-Network gateway for connecting four Modbus lines to a network running TCP/IP. It operates without platform and distance limitation.

ModGate 413 uses Modbus/TCP for communication on the network. The serial ports are configured for Modbus/ASCII or Modbus/RTU, while the serial lines are physically set for RS232, RS422 or RS485. The messages received on the network are sent to the serial lines, messages from the serial ports are sent via network.

Modbus Master Multiplexing is implemented as an extension to the standard. Slaves on serial lines may answer requests from multiple masters. The masters connect to ModGate 413 by Modbus/TCP or from other serial lines.

The configuration of ModGate 413 is done via HTTP. The user interface is based on Web 2.0 to provide an easy handling of the options. Besides typical serial parameters the configuration includes RS232/485 for serial physical parameters. Further a Modbus address mapping table is available, defining a target port for a certain Modbus address.

ModGate devices are available with 1 up to 8 serial ports, optional also with WLAN plus Ethernet.

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