Zoom in Picture

■ **Features**

- ▪Controls 4 Modbus lines located virtually anywhere via Ethernet or Internet
- ▪LAN interface 10BaseT/100BaseTx Ethernet
- ▪Configuration over WEB Browser
- ▪Supports TCP/IP, DHCP, ICMP, HTTP, DNS
- ▪Supports ART (Automatic Receive Transmit control)
- ▪RS232/485 interface selectable by Software

ModGate 413

■ 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 or RS485. The messages received on the network are sent to the serial lines, messages from the serial ports are sent via network.

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.
Read the News Article...

■ Application

- ▪Industrial / Factory / Laboratory automation
- ▪Automatic warehouse control system
- ▪Wafer fabrication system
- ▪SCADA system
- ▪Building automation system

■ 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

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■ Interface

Ethernet interface	Auto-detecting 10BaseT/100BaseTx
Protocols	TCP/IP, DHCP, ICMP, HTTP, DNS
Serial interface	RS232/485 selected by software
No. of port	4, Speed up to 115200 bps
Available Modes	RS232 full duplex RS485 2-wire, half duplex, without echo
Signals	RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND RS485: 2 wire Data+/-, 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
PromiscousMode	Mapping of serial ports to TCP connections

■ Power and Environment

Power requirements	9 - 30V DC, 500mA @ 12V
Power supply Adapter	12V DC, 1A. Connected by Terminal block
Dimension	167× 99×29 mm³ (W×L×H) 189×102×30 mm³ with DB9 connector and DIN rail mounting kit
Operating Temp	0°C - 55°C
Storage Temp	−20°C − 85°C
Case	SECC sheet metal (1mm)
Weight	0.4kg

■ Special Features

Installation	Dip switches set a defined temporary IP Address to contact via WEB Browser

Operating mode	Promiscous 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).

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.

■ Ordering Information

Art.No	6701
Product Name	ModGate 413
Packing list	ModGate 413 Power supply adapter 12V, 1000mA CD-ROM with user manual

■ Optional Accessories

DK 35A	DIN-Rail mounting kit

■ Full size product image