



[Zoom in Picture](#)

### ■ Features

- Controls 8 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 813RM

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### ■ Overview

Modgate 813RM 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 813RM 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 813RM 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

<b>Processor</b>	ARM 9 166 MHz
<b>I/ O controller</b>	16C950 or compatible
<b>Memory</b>	16MB SDRAM, 2 MB Flash
<b>Connector type</b>	DSUB 9 male for serial Port RJ45 for Ethernet

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### ■ Interface

<b>Ethernet interface</b>	Auto-detecting 10BaseT/100BaseTx
<b>Protocols</b>	TCP/IP, DHCP, ICMP, HTTP, DNS
<b>Serial interface</b>	RS232/485 selected by software
<b>No. of port</b>	8, Speed up to 115200 bps
<b>Available Modes</b>	RS232 full duplex RS485 2-wire, half duplex, without echo
<b>Signals</b>	RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND RS485: 2 wire Data+/-, GND
<b>RS485 Data control</b>	Controlled by ART (Automatic Receive Transmit control)

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## ■ Performance

<b>Speed</b>	Up to 115200 bps
<b>Parity</b>	None, even, odd
<b>Data bits</b>	7, 8
<b>Stop bits</b>	1, 2
<b>IRQ</b>	None
<b>I/ O address</b>	None

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## ■ Operating Modes

<b>Modbus RTU/ ASCII</b>	Modbus RTU or Modbus ASCII protocol selected for each serial port individually
<b>DirectMappingMode</b>	Direct mapping of Modbus addresses to serial ports or TCP connections
<b>PromiscuousMode</b>	Mapping of serial ports to TCP connections

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## ■ Power and Environment

<b>Power requirements</b>	100 - 240V AC 47-63 Hz, 25VA
<b>Dimension</b>	258×149×45 mm <sup>3</sup> (W×L×H) 278×155×46 mm <sup>3</sup> with DB9 connectors and DIN rail mounting kit 19" 1HU Rackmount
<b>Operating Temp</b>	0°C - 55°C
<b>Storage Temp</b>	-20°C – 85°C
<b>Case</b>	SECC sheet metal (1mm)
<b>Weight</b>	1.9kg

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## ■ Special Features

<b>Installation</b>	Dip switches set a defined temporary IP Address to contact via WEB Browser
<b>Operating mode</b>	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).
<b>Configuration</b>	Configuration over WEB Browser
<b>ART</b>	Automatic Receive Transmit control for RS485
<b>DNS</b>	Domain Name Server support
<b>Serial Interface</b>	Serial Interface configurable by software
<b>Firmware</b>	Firmware update over WEB Browser
<b>LEDs</b>	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed

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## ■ Security

<b>Password access</b>	Webinterface is password protected. The password can be changed in the Webinterface.
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## ■ Ordering Information

**Art.No** 6702

**Product Name** ModGate 813RM

**Packing list**  
ModGate 813RM  
Power cord  
19" mounting kit  
CD-ROM with Driver and configuration software  
Printed Quick Installation Guide

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## ■ Optional Accessories

[DK 35A](#) DIN-Rail mounting kit

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■ Full size product image



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