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Features

- Controls 8 RS232/422/485 devices located virtually anywhere via Ethernet, WLAN or Internet
- Easy selection of RS232, RS422 or RS485 by single DIP switch or individually by software
- Port expansion over USB A connector
- LAN 1000/100/10 Ethernet auto-detect
- NetCom Manager automatically finds NetCom+ devices in the network

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- Configuration over Driver Panels, serial Port, Telnet, WEB Browser, SNMP
- Automatic mode switching between Driver and Raw Mode
- Supports TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP V1/2c/3, DNS, PPP, openVPN
- SSL/AES-256 encryption on Ethernet, WLAN and Internet
- Optional: Wireless network IEEE 802.11b/g/n
- Optional: 3G/4G Modem for mobile networks

Contact Online...

ModGate Plus 813

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Overview

The Modgate Plus (or Modgate+) are easy to use Gateways from Modbus/TCP on Ethernet or WLAN to Modbus/RTU or Modbus/ASCII on the serial ports. Modgate+ 813 connects eight Modbus serial lines to a network running TCP/IP. Metal case, wide temperature range and flexible DC power supply classify the Modgate+ as industrial-strength devices. They are based on a state-of-the-art RISC processor, to provide cost-effective design and low power consumption.

Using TCP/IP the Modgate+ operate without limitations on distance or OS platform, the Gateways are usable via Internet and VPN connections. The serial port is configured for Modbus/ASCII or Modbus/ RTU and physically set to RS232, RS422 or RS485 operation. The messages received on the network are sent to the serial line, messages from the serial port are sent via network. Modgate+ automatically adjusts as Master or Slave on the serial port.

Modbus Master Multiplexing is implemented as an extension to the standard. Several masters connect to Modgate+ by Modbus/TCP, slaves on serial lines may answer requests from multiple masters.

The configuration of Modgate+ is done via browser. The user interface is based on Web 2.0 to provide an easy handling of the options. UPnP provides a simple and standard way to find the Gateway in the network.

Modgate+ devices can be ordered with an embedded module for WLAN 802.11b/g/n. Plus the Modgate + 813 may be ordered as POE device, with additional power supply via Power-over-Ethernet 802.3af

(Class 0).

(Class U).	
Application	
 Secure Remote Monitoring SCADA system Building automation system Self-service banking system 	 Industrial / Factory / Laboratory automation Automatic warehouse control system Wafer fabrication system Other remote and distributed serial devices control
Interface	
Ethernet interface	Auto-detecting 1000BaseT/100BaseTx/10BaseT (GigaLAN) Connector 8P8C (RJ45)
Wireless interface	Optional via internal module or external USB stick IEEE 802.11b/g/n operation in Access Point or Client Mode
Protocols	TCP/IP, DHCP, ICMP, HTTP, DNS, UDP, UPnP/SSDP, Modbus/TCP, Modbus/RTU, Modbus/ASCII
Serial interface	RS232/422/485 selected by software
No. of port	8x DSUB 9 male connector (as PC)
Available Modes	 RS232 full duplex RS422 full duplex RS485 4 wire, full duplex RS485 2 wire, half duplex
Signals	 RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, 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)
Expansion port	USB 2.0 High Speed, for WLAN
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Serial Performance	
Speed	up to 115.2 kbps for Modbus RS232: up to 1000 kbps, RS422/485: up to 3 Mbps
Parity	None, even, odd
Data bits	7, 8
Stop bits	1, 2
Operating Modes	<u>>Back to top</u>
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 Back to top
Power and Environment	
Connector	3-pin Terminal Block with Protective Earth
Power requirements	9 - 54V DC, 0.5A @ 12V, 6W
Power over Ethernet	Optional, Class 0 Device (802.3af). Typical consumption is 6W.
Dimension	196×147×44 mm ³ (W×L×H)
Operating Temp	–20°C - 65°C

Storage Temp	–20°C – 85°C	
Case	SECC sheet metal (1mm)	
Weight	0.9kg	
Mounting	 19-inch Rack Wall mount >Back to top 	
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 defined serial ports, messages from the serial port are sent to defined 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+ by Modbus/TCP.	
Configuration	Configuration over WEB Browser	
Detection	Announces presence in the network via Universal Plug and Play (UPNP) protocol	
DNS	Domain Name Server support	
Serial Interface	Serial Interface configurable by software This also enables internal Termination for RS485	
Firmware	Firmware update over WEB Browser	
LEDs	LEDs for Power, Ready, WLAN, serial Tx, Rx, Ethernet Link, Speed <a>Back to top	
Security		
Password access	Webinterface is password protected. The password can be changed in the Webinterface.	
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Ordering Information		
6740	ModGate Plus 813 (8x RS232/422/485) Back to top	
Options		
6689	WLAN Kit internal internal module 802.11b/g/n, pigtail and antenna Purchase time option, not for later retrofitting	
6690	WLAN Kit external USB stick 802.11b/g/n, antenna	
6031	Power supply adapter 12V DC, 1A	
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female	
on Request	Option POE, 802.3af (Class 0) Power-over-Ethernet alternative supply <u>>Back to top</u>	

Packing list

- ModGate Plus 813
- Mounting brackets for 19-inch rack
- Wall mount plates
 Terminal block for Power Supply
 CD-ROM with user manual

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ModGate Plus back side >Back



Rackmount Kit >Back



