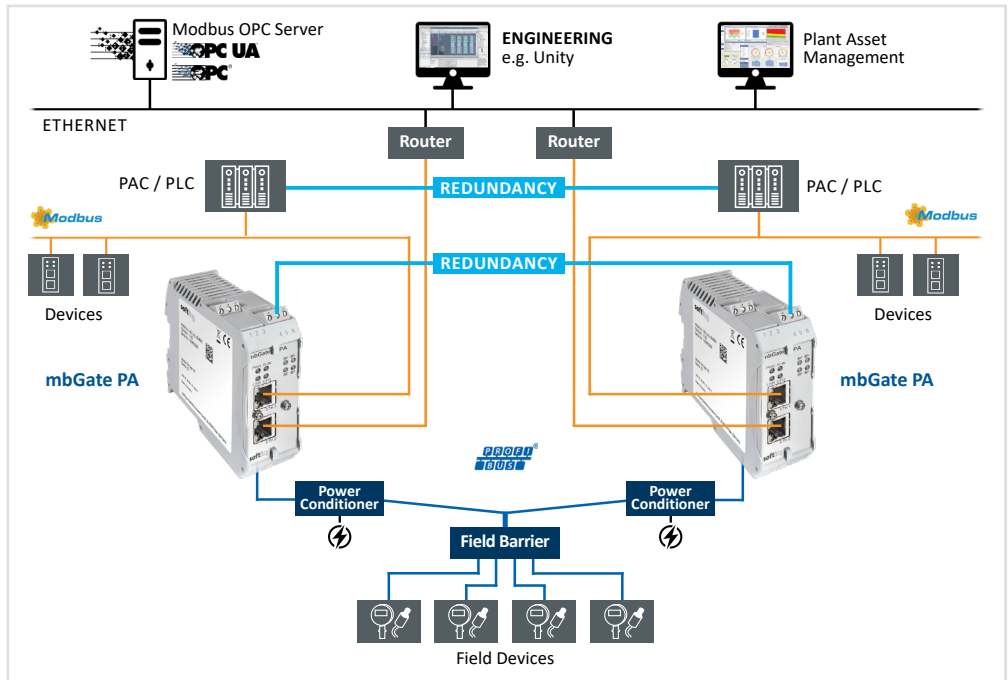
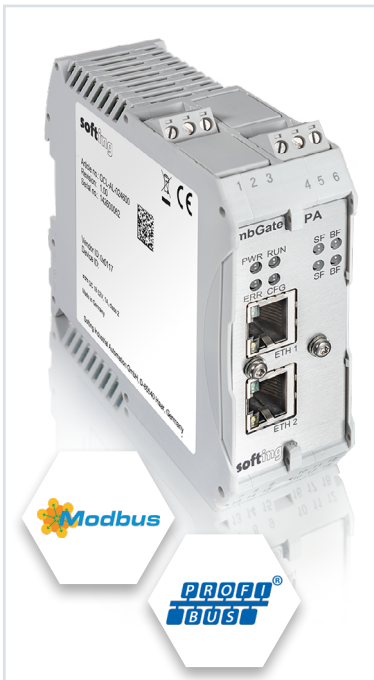


mbGate PA

Direct PROFIBUS PA Segment Integration into Modbus TCP Control Systems

- Re-use of Existing Power Conditioners in Technology Upgrade Projects
- No PROFIBUS DP Intermediate Segment required
- Prepared for Integration in Standard Engineering and Plant Asset Management Tools
- MODBUS/TCP Redundancy



Key Component for Transition to State-of-the-Art Technology

- Simple replacement of installed PROFIBUS DP/PA segment couplers
- Re-use of existing PROFIBUS PA segments without requiring modification

Direct Connectivity to PROFIBUS Segments

- Acting as Modbus TCP Server and PROFIBUS PA Master
- Connects up to 4 PROFIBUS PA Segments to Modbus TCP
- Support of up to 64 PROFIBUS devices

Configuration, Parameterization and Plant Asset Management Using Standard Industry Tools

- Supports major Modbus engineering tools such as Schneider Unity Pro or Siemens TIA Portal
- Included CommDTM allowing use in FDT/DTM frame applications
- EDD-based device parametrization using Siemens Simatic PDM

MODBUS/TCP Redundancy

- Supports the use of two redundant PLCs and two redundant gateways
- Easily enabled via licensing
- Full control of redundant operation mode via engineering and PLC

Technical Data

Hardware	Processor	Altera Cyclone V SoC with dual-core ARM Cortex-A9
	Status LEDs (Gateway)	PWR (power supply), RUN (operation), ERR (error), CFG (configuration and update)
	Status LEDs (Fieldbus)	SF (system fault), BF (bus fault)
Interfaces and Connectors	Ethernet	2 * IEEE 802.3 100BASE-TX / 10BASE-T, managed Ethernet switch for daisy chain topology Connectors: RJ45 Protocol: Modbus TCP Server RESTful API interface for device configuration
	PROFIBUS PA	Up to 4 PROFIBUS PA (MBP) segments (refer to the section „Order Numbers“), Bus-powered Medium Attachment Unit (MAU): Fieldbus voltage range: 9 VDC ... 32 VDC, current consumption 10 mA, Connectors: 3-position screw connection, galvanically isolated
Physical Properties	Dimensions (H x W x D)	100 mm x 35 mm x 115 mm
	Weight	Approx. 0.25 kg
	Power Supply	18 VDC ... 32 VDC; SELV/PELV power supply mandatory Typical input current: 200 mA, maximum input current: 1 A (allowing for in-rush current at switch-on) No power supply to PROFIBUS PA segments through mbGate PA
	Typical Power Loss	6 W
	Operating / Storage Temperature	-40 °C ... +60 °C / -40 °C ... +85 °C (see detailed mounting description in user manual)
	Relative Humidity	10 % ... 95 %, non-condensing
	Cooling	Convection, no fan
	Coating	Conformal coating based on ANSI / ISA-S71.04 G3
	Mounting	DIN rail 35 mm
	Protection Class	IP20

Scope of Delivery

Hardware	mbGate PA Gateway
Documentation	On Website

Order Numbers

GCA-EL-024802	mbGate PA , Modbus TCP to PROFIBUS PA Gateway. Supports up to 2 PA segments (up to 32 PA devices).
GCA-EL-024804	mbGate PA , Modbus TCP to PROFIBUS PA Gateway. Supports up to 4 PA segments (up to 64 PA devices)

Additional Products and Services

LRA-EN-024851	gatePlus HighAvailability , License for activating redundancy features in mbGate PB
LRL-DY-134501	dataFEED OPC Suite , Version 4.01 and higher, including all supported PLC protocols, support for OPC UA, access for any number of dataFEED OPC Tunnel Clients, for simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and OPC Tunnel Servers, and many more Functionalities such as Database and File Access, Data Exchange, Optimizer, Concentrator and Bridge
GCA-EN-024808	mbGate PB , Modbus TCP to PROFIBUS Gateway. Supports 2 PA segments (up to 32 PA devices, MBP physical layer) and 1 PROFIBUS DP segment (RS485).
GCA-EN-024806	mbGate DP , Modbus TCP to PROFIBUS DP Gateway. Supports 1 PROFIBUS DP segment (RS485).

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