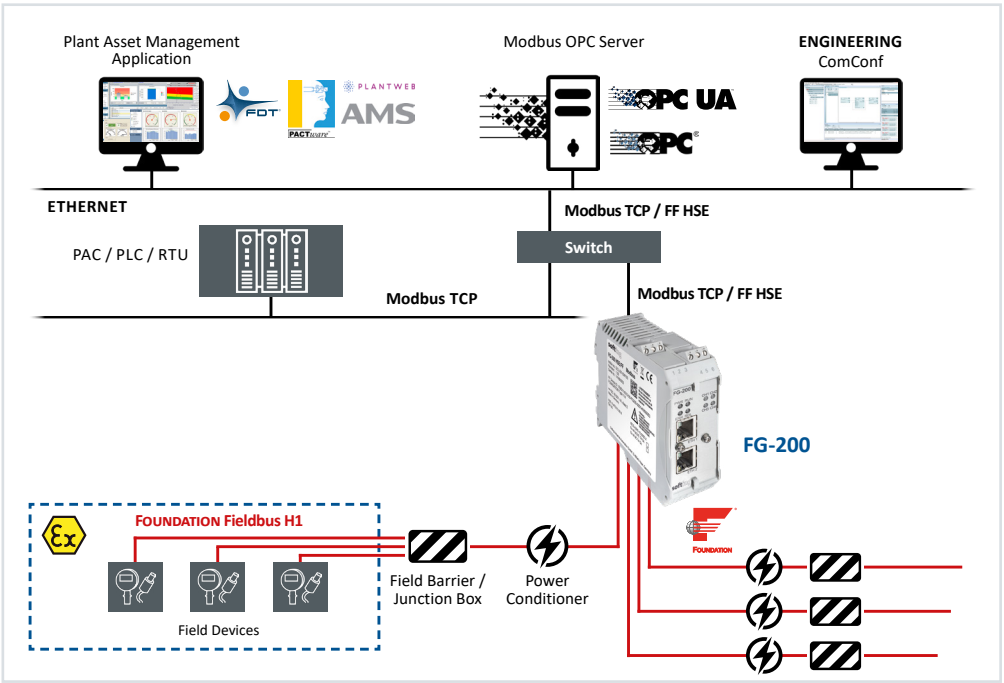
FG-200

Modbus TCP / FF HSE to H1 Gateway

- **Integrate FF segments into Modbus TCP control systems**
- **Interface for FF plant asset management applications**
- **High availability with FF redundancy**
- **Suitable for use in hazardous areas**



Integration of FF-H1 devices into Modbus TCP control systems

- Parallel support of up to 4 FF-H1 channels, each for max. 16 field devices
- Fast access to process data
- Suitable for use in hazardous areas
- FF Configuration Tool for easy commissioning

Access to FF H1 devices from plant asset management applications

- Visitor mode for avoiding interference with network behavior
- FF HSE interface for EDD based applications like Emerson's AMS Device Manager (<V14.5 or >=V15)
- DTM for FDT applications like PACTware, Yokogawa FieldMate, Honeywell FDM, E+H FieldCare

High availability

- Redundancy link enabling device redundancy (D-3 according to FF-593)
- Automatic mirroring of configuration data
- Very fast redundancy switchover

FG-200

Technical Data

Hardware	Processor	Altera Cyclone V SoC with dual-core ARM Cortex-A9
	Status LEDs (Gateway)	PWR (power supply), RUN (operation), ERR (error), RDL (redundancy link)
	Status LEDs (Fieldbus)	FF H1 activity per link
Interfaces and Connectors	Ethernet	2 * IEEE 802.3 100BASE-TX / 10BASE-T (only ETH1 supported) Connectors: RJ45
	FOUNDATION Fieldbus H1	4 FF H1 links, compliant to type 114 of FF physical layer profile (each link capable to operate independently as Link Master and/or Time Master) Transfer rate: 31.25 Kbit/s Fieldbus voltage range: 9 VDC ... 32 VDC, preferred voltage: 24 VDC Current consumption: 10 mA / link Connectors: 3-position screw connection, galvanically isolated
Physical Properties	Dimensions (H x W x D)	100 mm x 35 mm x 105 mm
	Weight	Approx. 250 g
	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 FF H1 links through FG-200 HSE/FF Modbus
	Operating / Storage Temperature	-40 °C .. +70 °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
Software	Protocols	FOUNDATION Fieldbus H1, FOUNDATION Fieldbus HSE, Modbus TCP
	Redundancy	Device redundancy compliant to type D-3 according to specification FF-593
Conformity / Certifications	CE	EN61000-6-2, EN61000-6-4, EN55022 Limit Class A, EN55011
	Electromagnetic Compatibility (EMC)	FCC CRF47, Part 15 Section 15.107 and 15.109 (Class A), VCCI Class A Information Technology Equipment 2002
	Vibration / Shock	DIN EN 60068-2-6 Vibration / DIN EN 60068-2-27 Schock
	Hazardous Location Certifications	cULus: Class 1, Division 2, Groups A, B, C, D IECEx: Ex ec [ic] IIC T4 Gc ATEX: Ex II 3G ec [ic] IIC T4 Gc CCC : Ex ec [ic] IIC T4 Gc

Scope of Delivery

Hardware	FG-200
Software	Download from the Softing website: Firmware, FF Configuration Tool, FF-DTM
Documentation	Quick Startup Guide, User Manual

Order Numbers

GLA-EK-024102	FG-200
ACA-ZZ-020631	Redundancy Link (3-pole), Cable (30 cm) for connecting redundant pairs of FG-200

Additional products and services

Installation solutions	When using the high-power trunk topology or FISCO, we offer in cooperation with R.Stahl, fieldbus infrastructure components with PROFIBUS PA and FOUNDATION fieldbus H1 – this ranges from power supply, physical layer diagnostics and field device couplers to termination resistors.

Your local Softing contact:

http://industrial.softing.com

optimize! softing

Technical changes reserved © Softing Industrial Automation GmbH, FG-200_D_EN_260112_350, January 2026