

PM 901F

Freelance hardware selector



This CPU module is the lite base unit of the Freelance AC 900F controller family. It typically supports up to 400 I/Os and 3 MB battery-buffered SRAM. 3 Ethernet interfaces, 400 MHz CPU clock, 11 MB Controller Memory, 3 MB battery buffered SRAM, 8 MB DRAM. 2 slots for assembling Communication Interface Modules.

The operating system can be loaded during software installation. Needs an external 24 V DC power supply. Software version 2016 or higher is mandatory. Display Unit TD 951F and Battery TA 951F are not included.

Features and benefits

- More connectivity with serial ports and Ethernet ports
- Built-in SD card support
- New Ethernet-based protocols – Modbus TCP and IEC 60870-5-104
- G3 compliant as standard
- Built-in power supply

General info

Article number	3BDH001001R0001
Life cycle status	Active
Redundancy	Yes
Clock Frequency	400 MHz
Performance, 1000 boolean operations	0.12 ms
Memory	11 MB
RAM available for application	3 MB

Detailed data

Processor type	PowerQUICC II Pro
Switch over time in red. conf.	500 ms
No. of tasks per controller	9
Power supply	24 V DC
Power consumption +24 V typ/max	24 W / 30 W
Power dissipation	18 W
Built-in back-up battery	Lithium battery (TA 951F)
Clock synchronization	yes
Ethernet channels	3
Ethernet interface	Ethernet (IEEE 802.3), 100/10 Mbit/s, RJ-45, female (8-pole)
RS-232C interface	3 (2 general, 1 for service tool)

Environment and certification

Temperature, Operating	-20°C ... +70°C
Temperature, Storage	-40 ... +85°C
Temperature changes	3K/min at -20°C ... +70°C
Corrosion protection	G3 compliant acc. ISA 71.04
Relative humidity	max. 93%, non-condensing
Vibration	2 g, 2 Hz ... 150 Hz
Protection class	IP20
Altitude	< 2000 m
Emission & Immunity	EN 61000-6-4, EN 61000-6-2
Environmental conditions	Industrial
CE Mark	Yes
Electrical Safety	IEC/EN 61010-1, IEC/EN 61010-2-201
Hazardous location	cULus Class 1 Div 2
RoHS compliance	Directive 2011/65/EU, (EU) 2015/863
WEEE compliance	Directive 2012/19/EU

Dimensions

Width	227 mm
Height	152 mm
Depth	95 mm
Weight (including base)	1.07 kg

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