

DATA SHEET

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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