

DATA SHEET

PM 904F

Freelance hardware selector



This CPU module is the high-end base unit of the Freelance AC 900F controller family. It typically supports up to 1500 I/Os. 4 Ethernet interfaces, 800 MHz CPU clock, 48 MB Controller Memory: 16 MB battery buffered SRAM, 32 MB DRAM. 4 slots for assembling Communication Interface Module.

The operating system can be loaded during software installation. Needs an external 24 V DC power supply. Software version 2019 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
- Optional LCD providing enhanced security through controller lock
- Optional redundancy

General info		
Article number	3BDH001002R0001	
Life cycle status	Active	
Redundancy	Yes	
Clock Frequency	800 MHz	
Performance, 1000 boolean operations	0.12 ms	
Memory	48 MB	
RAM available for application	16 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	4	
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 (pending)	
RoHS compliance	Directive 2011/65/EU, (EU) 2015/863	
WEEE compliance	Directive 2012/19/EU	

Dimensions		
Width	285 mm	
Height	152 mm	
Depth	95 mm	
Weight (including base)	1.1 kg	



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