

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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