AC 800M HIGH INTEGRITY

Product Data Sheet

PM857K01

Processor unit kit

PROCESSOR ARCHITECTURE	CLOCK FREQUENCY	INSTALLED MEMORY	BOOLEAN EXECUTION TIME
MPC866	**96 MHz**	**32 MB**	**0.17 ms per 1000 operations**

ABB PM857K01 is an AC 800M processor unit kit built around an MPC866 processor running at 96 MHz. It provides 32 MB of memory and connects controller tasks to Ethernet communication, serial interfaces and modular I/O.

01 TECHNICAL DATA

Processor architecture	MPC866
Clock frequency	96 MHz
Installed memory	32 MB
Available application RAM	22.184 MB
Boolean execution time	0.17 ms per 1000 operations
Rated supply	24 V DC; permitted 19.2-30 V DC
Supply current	210 mA typical; 360 mA maximum
Power dissipation	5.1 W typical; 8.6 W maximum
Ethernet channels	2
Ethernet line rate	10 Mbit/s

02 ADDITIONAL PRODUCT DATA

Serial interfaces	2 RS-232C ports
CEX expansion capacity	Up to 12 communication modules
Backup battery	3.6 V lithium
Operating temperature	0 to +55 deg C
Ingress protection	IP20

03 PRODUCT FUNCTION

The processor mounts on a TP830 baseplate and provides two Ethernet channels together with separate general-purpose and service serial connections. Its nominal 24 V DC input accepts 19.2-30 V DC, and the built-in 3.6 V lithium battery supports retained operation data. High Integrity operation requires the documented safety configuration and the applicable SM812 safety module. The PM857 configuration is limited to 128 I/O signals.

04 SYSTEM COMPATIBILITY

The processor offers 32 MB installed memory, of which 22.184 MB is available for the application. Map the two Ethernet channels, the general-purpose COM3 connection and the service COM4 connection to their intended network and engineering roles.

05 REFERENCE

ABB Compact Product Suite Catalog 3BSE062980; exact-model ABB hardware selector technical tables

AMIKON PRODUCT SUPPORT

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