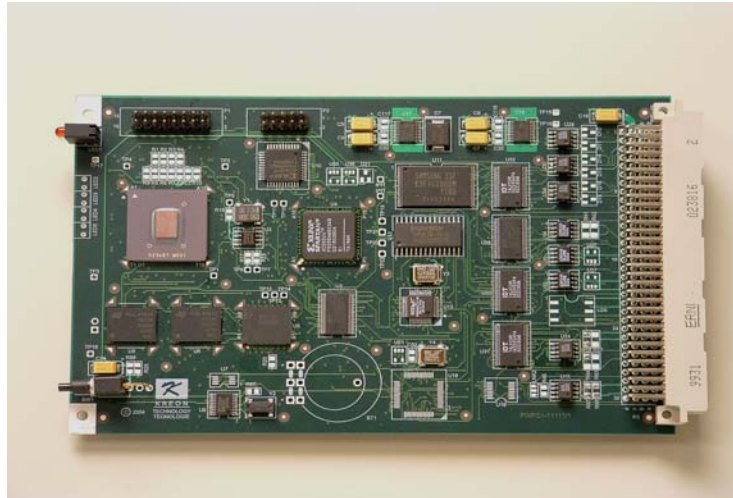


PWPC1 POWER PC CPU CARD

The PWPC1 Power PC CPU card is suited for high-speed control applications and data processing. A custom TTL-compatible bus provides for parallel off-card memory mapped access. A quad UART and an ARCNET LAN provides serial communication channels. An embedded BIOS provides interface functions for the application developer.



Technical Data

Microprocessor	MPC603RRX266
Volatile memory	128Mx32 SDRAM
Non-volatile memory	128Mx8 NAND Flash, 8Mx16 Flash, 256Kx8 FRAM
UART communication channels	2x RS232, 2x opto-isolated RS422
ARCNET LAN communication channel	Opto-isolated RS485, 10MBps
Digital inputs and outputs	8x TTL outputs, 2x TTL inputs, 6x RS422 inputs
Other peripheral devices	Real-time clock, Temperature sensor
Custom bus interface	TTL, 16-bit data, 16-bit address, 7x chip-selects, 4x interrupts
Connector	DIN41612, 160-pin male
Power supply	5V DC, 500mA typically
Size	160mm x 100mm

Software

Run-Time Environment	The Kreon PowerPC card is shipped with a run-time environment that provides the user with all the software-to-hardware interface drivers for all on-board peripherals, a basic task scheduler with pre-emptive task switching, comprehensive interrupt and fault handling mechanisms, and components to assist with integration and testing, e.g. a telemetry manager
Boot-Load Manager	Embedded PowerPC code to download application code, and program into FLASH memory
Boot-Load Programmer	Windows 32-bit application to access the embedded boot-load manager

Environmental Specification (Qualified to MIL-STD 810E)

Operational Temperature	-20 to +60 °C
Vibration	Frequency bandwidth: 10-500 Hz: Breakpoints: 10 Hz- 0.015g ² /Hz, 50 Hz-0.015g ² /Hz, 500 Hz- 0.0015g ² /Hz
Shock	20 shocks in 3 orthogonal axes, half sine, with a 15g peak, duration 11ms

Ordering Information

Description: PWPC1 CPU card	Part number: PWPC1-11000/1
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