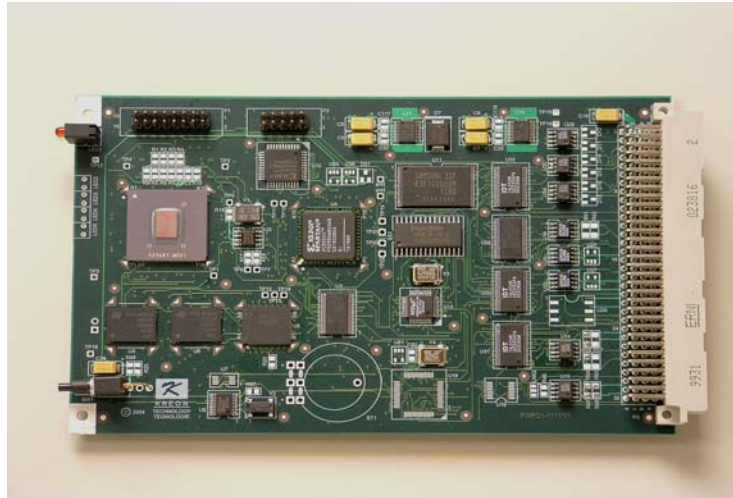


PWPC1 POWER PC CPU CARD

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

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|----------------------------------|--|
| 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

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|----------------------|---|
| 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)

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|-------------------------|---|
| 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

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

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