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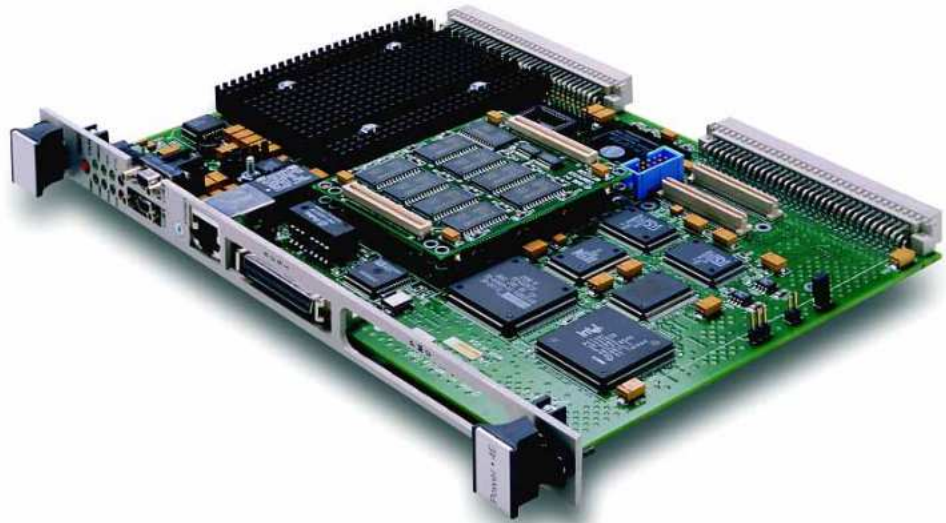
# **Power•4e**

## **VMEbus with Front Panel I/O**

### **Single Board Computer**

## **Features:**

- PowerPC 604R @ 300MHz
- 64-256MB EDO DRAM
- 512KB L2 CACHE
- 8.5MB FLASH
- 8K RTC/NVRAM
- 10BaseT/100BaseTX  
ETHERNET
- SCSI-20 Fast
- Two RS-232C Serial Ports
- PMC Slot
- Single VMEbus Slot Width
- Built-In Test (BiTe)
- VME64 Compliant



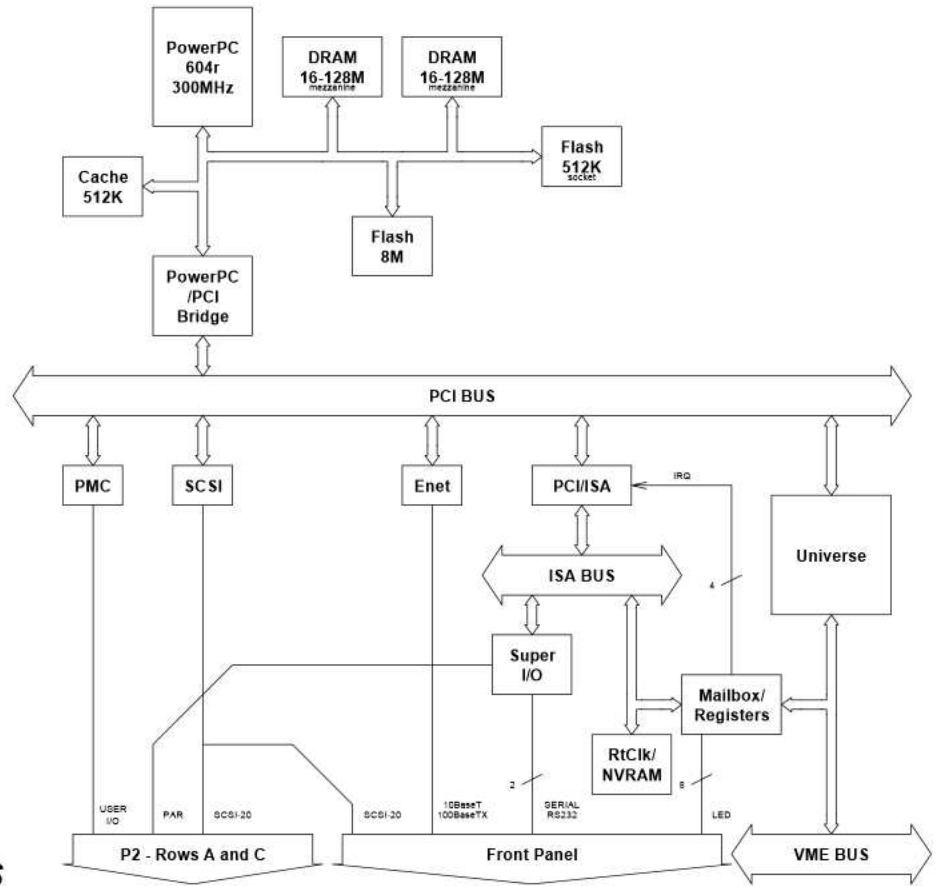
*Power•4e*<sup>™</sup> is a high performance VMEbus single board computer with front panel I/O. The Power•4e couples a 300MHz processor with a 512KB L2 cache and EDO DRAM to provide cost-effective performance in a single board computer.

A full complement of I/O capability makes the Power•4e the ideal solution for the systems integrator that needs high performance and a flexible I/O structure. The Power•4e provides front panel access to 10BaseT/100BaseTX ETHERNET, Fast SCSI-20, two RS-232C Serial Ports, and a PMC Expansion Slot. SCSI-20 and Parallel Port I/O are also routed to the P2 rear panel connector. The performance and I/O capability can meet the most demanding system requirements.

The Power•4e has a high performance VME64 Master/Slave compliant interface. The PMC expansion slot allows for I/O to the front panel or to the P2 connector.

The Power•4e is supported with a full range of real time operating systems and kernels, including: VxWorks, LynxOS, pSOS+ and OpenBSD/RT. An optional full Power On/Built In Test (BiTe) is available.

# Power 4e Block Diagram



# Power 4e Specifications

General	Model	Power-4e
Processor	Form Factor	6U VMEbus Single Board Computer
	Clock Rate	300MHz PowerPC 604R
VMEbus	L1 Cache	32KB Data/ 32KB Instruction
	Controller	Tundra Universe II
PCIbus	Configuration	Master/Slave A32/A24/A16, D32/D16/D*(EO), RMW
	Block Mode	Master/Slave BLT and MBLT D64/D32/D16 Transfers
Memory	Controller	MPC106
	DRAM	64MB EDO DRAM, 256MB Maximum with Mezzanine
FLASH	L2 Cache	512KB Pipelined Burst SRAM - Write Through and Copy Back Modes 64Kx72 9ns achieves 2-1-1-1 access times
	FLASH	512KB Boot Prom - 32 pin PLCC, socketed device 8MB soldered on FLASH, 1M x 64 with 256KB sectors
ETHERNET	NVRAM/RTC	8K NVRAM and Real Time Clock with Battery Back Up (removable)
	Controller	DEC 21140 10BaseT/100BaseTx to RJ-45 on Front Panel
SCSI	Controller	Symbios 53C860 Fast-20 SCSI on Front Panel and P2
PCI/ISA	Bridge	Intel 82378ZB
Serial Ports	Controller	National PC87332, Dual Serial to Front Panel
	Type	RS-232 via Dual Micro-D, DB-9 Style Connectors
Parallel Port	Controller	National PC87332, Enhanced Parallel to P2
	PMC Expansion	PMC connection allows IEEE 1386 compatible, single size PMC Modules I/O is routed via 3rd connector to P2 Supported PMC's include: FDDI, 1553, SCSI, PCMCIA, Graphics and more
JTAG		JTAG Emulator / Debug port on board
Software	BITe	Built In Test (optional) is available
	O/S Support	VxWorks, LynxOS, pSOS+, OS-9 and OpenBSD/RT
Electrical	Power	+5VDC @ 25 Watts, +12VDC @ 0.1 Watts, -12VDC @ 0.1 Watts
	Temperature	0 to +55 Inlet Air Operating, -40 to +85C Non-Operating
Environmental	Cooling	Forced Air 100 LFM Minimum Required
	Humidity	10 to 95% Relative Humidity, Non-Condensing



## SBS Embedded PPC Products (formerly V-I Computer)

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