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Find the *Mercury Computer Systems / Themis PPC64 / TPPC64* at our website: *Click HERE*

Themis TPPC64 High-Performance Multiprocessing VME Computer



New IBM PowerPC 970FX - based Dual-Processor VMEbus Computers

The Themis TPPC64™ is a single board VMEbus computer, based on the IBM® PowerPC ® 970FX processor. It is available in both a single slot uniprocessor configuration, as well as a two slot, dual Symmetric Multiprocessing (SMP) configuration. I/O extension and graphics boards can be added to either single or dual processor configurations and occupy additional VMEbus slots. The TPPC64 supports up to 4 GB of DDR400 SDRAM. The Themis TPPC64 includes two Gb Ethernet ports and a Single Ultra320 SCSI channel. PMC I/O can be expanded to four slots with two different PMC carrier boards.

Themis TPPC64 Features and Specifications

- Single 1.8 GHz IBM PowerPC 970FX processor
- Dual processor configuration occupies two VMEbus slots
- Estimated Performance: 1041 SPECint2000, 1168 SPECfp2000 (single processor configurations)
- up to 4 GB of DDR400 SDRAM memory
- PIBS firmware

Operating System Support
- Support for Linux

VME Interface
- VME64x front panel latches
- Universe II VME64x interface
- System and front panel LEDS

Expansion Capabilities
- Carrier board PCI expansion supports up to 3 additional PMC slots

Power Requirements

Single-CPU configuration:
12V power: 10.0A typical
5V power: 2.5A typical
Dual-CPU configuration (with PMC slot on CPU1 board)
12V power: 14.0A typical
5V power: 3.5A typical

Front Panel and P2 Connector I/O

I/O	Quantity	Access
Gb Ethernet	2	Front Panel
Ultra320 SCSI	2	SCSIA: Front Panel and P2
10/100 Ethernet	1	P2
USB	6 USB	4 on P2, 2 on Front Panel
AC97	1	P2
Serial Ports	2	Front Panel or P2 (user configurable)

Environmental

Parameter	Operating	Non-Operating
Temperature Range	-5 to +55°C	-40 to 95°C
Humidity (non-condensing)	0 to 95%	
Shock	30G @ 40 ms	30G @ 40 ms
Vibration (10-2000Hz)	0.90 grms	2.97 grms

IBM PowerPC 970FX Processor Key Architectural Features

64-bit Architecture
The IBM PowerPC 970FX provides maximum processor performance for existing 32-bit PowerPC applications and new 64-bit applications.

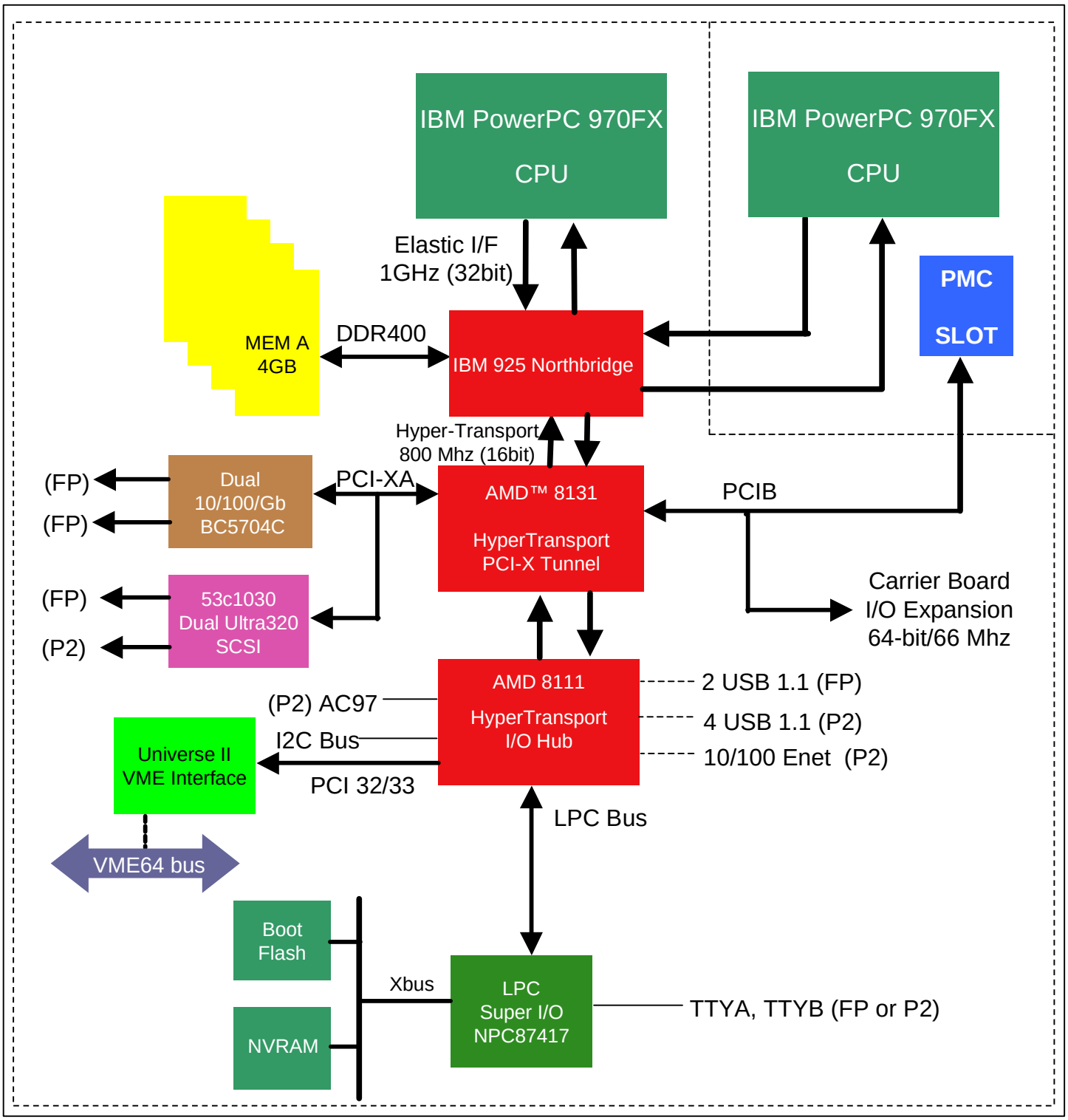
SIMD/Vector Engine
162 Vector/SIMD Multimedia eXtensions (VMX) targeted to graphics and DSP oriented applications.

Advance Architecture for Workstation and Server Applications
10 execution pipelines and a speculative superscalar inner core organization enable the IBM PowerPC 970FX processor to execute up to 5 instructions per clock. This advanced parallel architecture provides a new performance standard.

THEMIS

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Themis TPPC64 System Board



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