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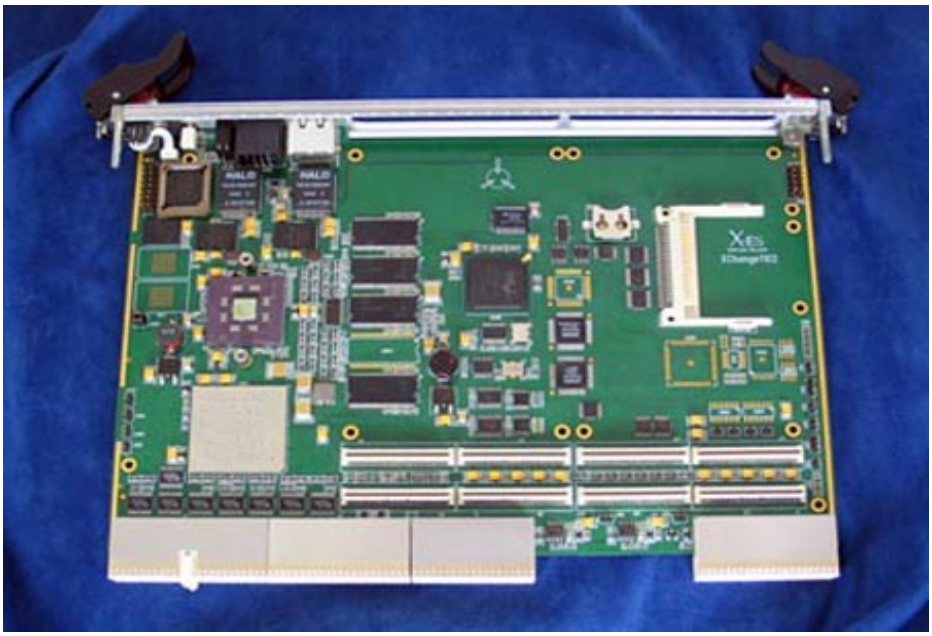
Find the *Extreme Engineering Solutions XChange1104* at our website: *Click HERE*

XChange1104

Dual PrPMC Ruggedized cPCI Carrier Card With PowerPC 440GX and PICMG 2.16 In Commercial Temp (0 to +55C)

Features

- PowerPC 440GX 533 - 800MHz Processor
- 133MHz PCI-X CompactPCI and Local Bus Interfaces
- Autosense System / Peripheral Slot
- Hot Swap Support
- Up to 1GB 333MHz DDR SDRAM
- 16-144MB Soldered Flash
- 512KB Socketed Flash
- Up to 1GB CompactFlash
- Front Panel Gigabit Ethernet and Serial Port
- Two Gigabit PICMG 2.16 Backplane Ethernet Ports
- Complies with PICMG 2.0, 2.1, 2.3, 2.9, 2.16
- VxWorks Driver and BSP
- Linux LSP
- IPMI



XChange1104 is a versatile 6U CompactPCI dual PrPMC carrier card with a PICMG 2.16 Gigabit Ethernet backplane interface supported in extend termperature range from -40 to +85C. With PCI-X support on both CompactPCI and local bus interfaces, XChange1104 is ideal for applications requiring high bandwidth and the flexibility that PMC modules offer in ruggedized systems industry demands today. Based on the IBM PowerPC 440GX Embedded Processor, XChange1104 is armed with the processing power needed for demanding applications. With integrated PCI-X, DDR SDRAM, and Ethernet interfaces, the 440GX offers a highly optimized yet cost effective solution for packet processing and general computing. Hot Swap support allows XChange1104 to be installed into a live system without disrupting CompactPCI bus activity. In addition, system management bus support allows the card to be powered down and reset remotely through the IPMI interface.

Typical Applications

- LAN/WAN Networking
- Telecommunication Management Network
- Data and Process Control

X-ES

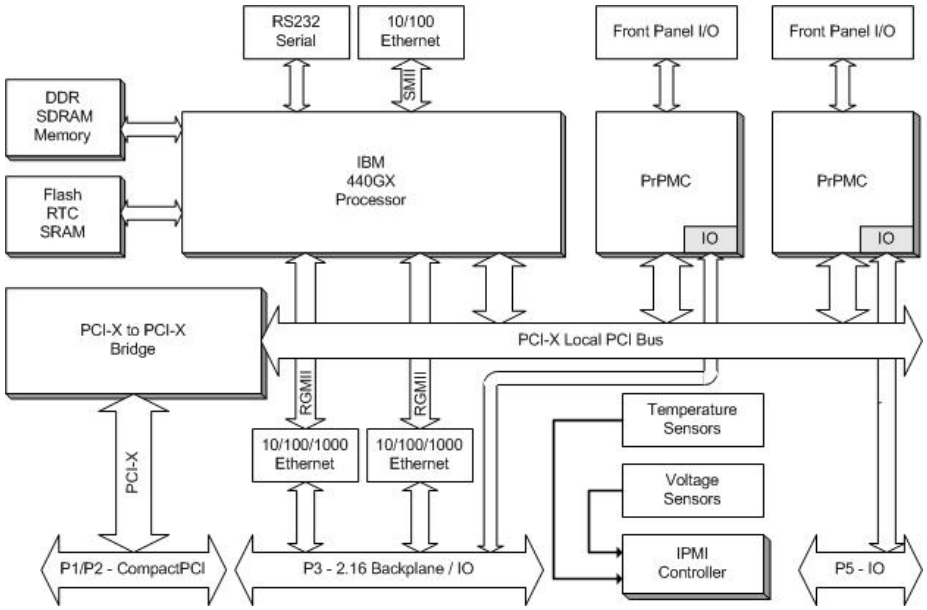
Extreme Engineering Solutions...
...Always Fast

For more information on XChange1104:
Visit: http://www.xes-inc.com/
Call: 608-833-1155
E-mail: sales@xes-inc.com

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Block Diagram

XChange1104



Processor

- IBM PowerPC 440GX
- 533-800MHz Processor Speed
- 133MHz PCI-X Interface
- 32K L1 Instruction/Data Caches
- 256KB L2 Cache/SRAM
- 333MHz DDR SDRAM Interface
- Two 10/100/1000Mbps Ethernet Controllers

Memory

- Up to 1GB DDR SDRAM
- 16-144MB Surface Mount Flash
- 512KB Socketed Flash
- Up to 1GB CompactFlash
- 512 Byte Serial EEPROM

PICMG 2.1

- Hot Swap support allows insertion and removal from an active CompactPCI bus

PICMG 2.3

- Routes PMC I/O to P3 and P5

PICMG 2.9

- Dedicated IPMI Microcontroller

PICMG 2.9 (cont.)

- Ability to control power and reset to the PMC slots
- Monitors 1.2V, 1.25V, 1.5V, 2.5V, 3.3V, 5V
- Monitors Board Temperature

PICMG 2.16

- Auto negotiates between 10/100/1000Mbps

PCI-X PMC Slots

- Maximum Aggregate Bandwidth of 1GB/s
- PrPMC (Processor PMC) Support

Software

- VxWorks BSP
- Linux LSP
- Ethernet and IPMI Drivers

Front Panel

- Serial Interface
- 10/100/1000 Ethernet

Physical

- 6U CompactPCI Form Factor

Physical (cont.)

- 233.35mm x 160mm

Power Requirements

- +3.3V 3.48A 11.5W
- +5.0V 0.1A 0.5W
- +12.0V 0.00A 0.0W
- -12.0V 0.00A 0.0W

Operating Temperature

- 0 to +55C ambient

Humidity

- 0% to 85%

Storage Temperature

- -40 to +85C

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