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Find the *Extreme Engineering Solutions XCalibur1000* at our website: *Click HERE*

XCalibur1000

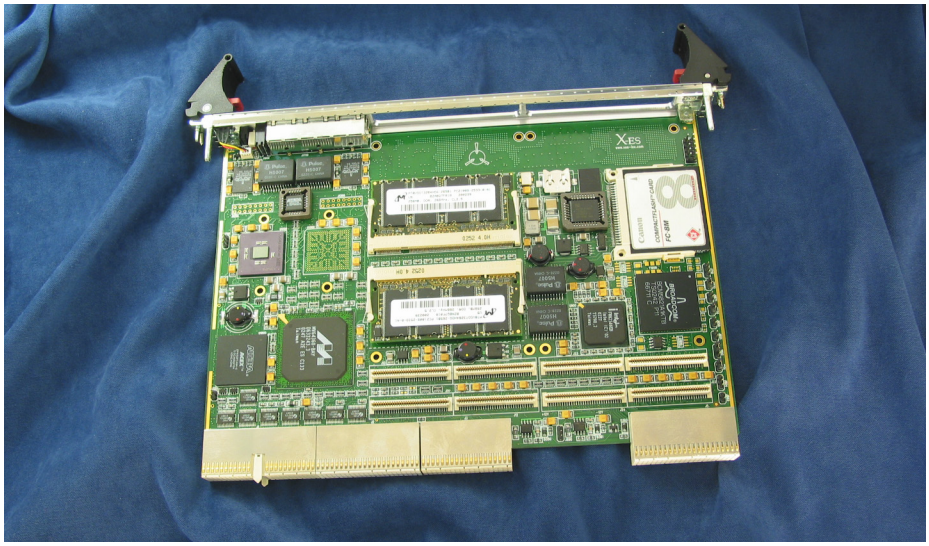
Single / Dual PowerPC 750FX CompactPCI Single Board Computer With PICMG 2.16 Switched Ethernet

Features

- Single / Dual IBM PowerPC 750FX 800MHz Processors
- Optional Broadcom Security Co-Processor
- Dual PCI-X PrPMC Slots
- CompactPCI System / Peripheral Slot Autodetect
- Hot Swap Support
- Up to 2GB SO-DIMM 266MHz DDR SDRAM
- 4 - 16MB Soldered Flash
- 512KB Socketed Flash
- 64MB - 1GB CompactFlash Socket
- Front Panel Serial and Two 10/100/1000Mbps Ethernet Ports
- Two 10/100/1000Mbps PICMG 2.16 Backplane Ethernet ports
- Complies to PICMG 2.0, 2.1, 2.3, 2.9, 2.16
- VxWorks Drivers and BSP
- Linux LSP

Typical Applications

- Processing Node
- Routing Blade
- System Controller



XCalibur1000 is a 6U CompactPCI single board computer with a PICMG 2.16 Gigabit Ethernet backplane interface. Dual IBM 750FX 800MHz processors give this card a decisive processing advantage. An optional security co-processor allows encryption to be accomplished through dedicated hardware. XCalibur is ideal for the high bandwidth processing requirements of today's blade and general computing applications.

XCalibur1000 provides a highly configurable processing platform. Two SO-DIMM DDR SDRAM sockets provide up to 2GB of local memory. An optional CompactFlash interface accepts up to 256MB of non-volatile memory. Two PCI-X PPMC slots are available for high bandwidth IO. With a PCI-X PMC module, an aggregate bandwidth of 1 gigabyte per second is achievable.

Hot Swap support allows XCalibur1000 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.

To the system designer, XCalibur1000 provides a feature rich solution to support the next generation of embedded applications.

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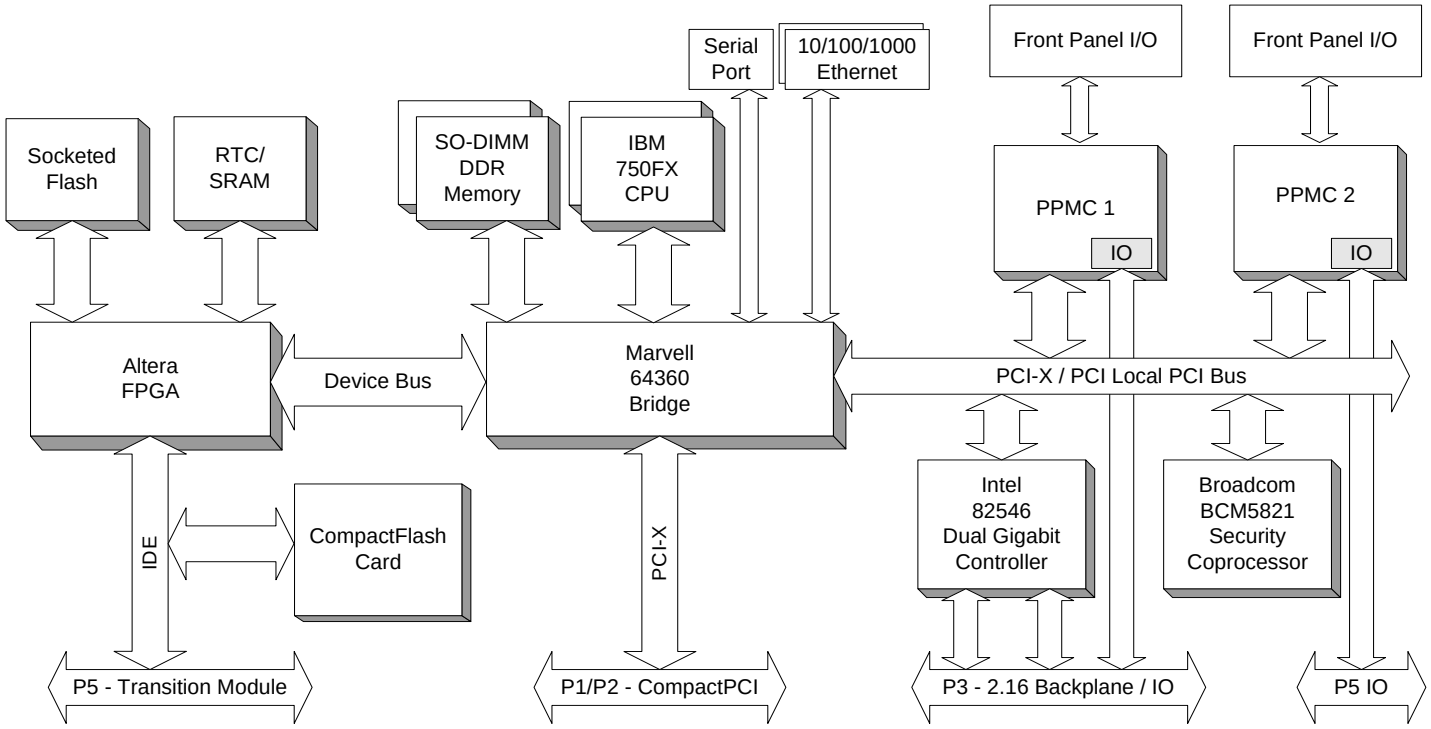
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For more information on XCalibur1000:
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Block Diagram

XCalibur1000



Processor

- Single / Dual IBM PowerPC 750FX
- 800MHz Max Processor Speed
- 133MHz Bus Speed
- 32K L1 Instruction/Data Caches
- 512KB L2 Cache

Memory

- Dual DDR SO-DIMM SDRAM
- 4 - 16MB Surface Mount Flash
- 512KB Socketed Flash
- 64MB - 1GB CompactFlash
- 512 Byte Serial EEPROM

Security Co-processor

- Broadcom BCM5821
- 470 Mbps IPSec
- 600 Mbps ARC4

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
- Ability to Control Power and Reset to the PMC slots
- Monitors 1.5V, 1.8V, 2.5V, 3.3V, 5V, +12V, -12V
- Monitors Board Temperature

PICMG 2.16

- Auto Negotiates Between 10/100/1000Mbps
- High Bandwidth PCI-X Controller

PCI-X PMC Slots

- Maximum Aggregate Bandwidth of 1GBps
- Processor PMC (PrPMC) Support

Software

- VxWorks Drivers and BSP
- Linux LSP
- Ethernet and IPMI Drivers

Physical

- 6U CompactPCI Form Factor
- 233.35mm x 160mm

Power Requirements (Typical)

+3.3V	3.24A	10.7W
+5.0V	0.05A	0.25W
+12.0V	0.00A	0.0W
-12.0V	0.00A	0.0W

Operating Temperature:

0 to +55C ambient, at board

Humidity

0% to 85%

Storage Temperature

-40 to +70C

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