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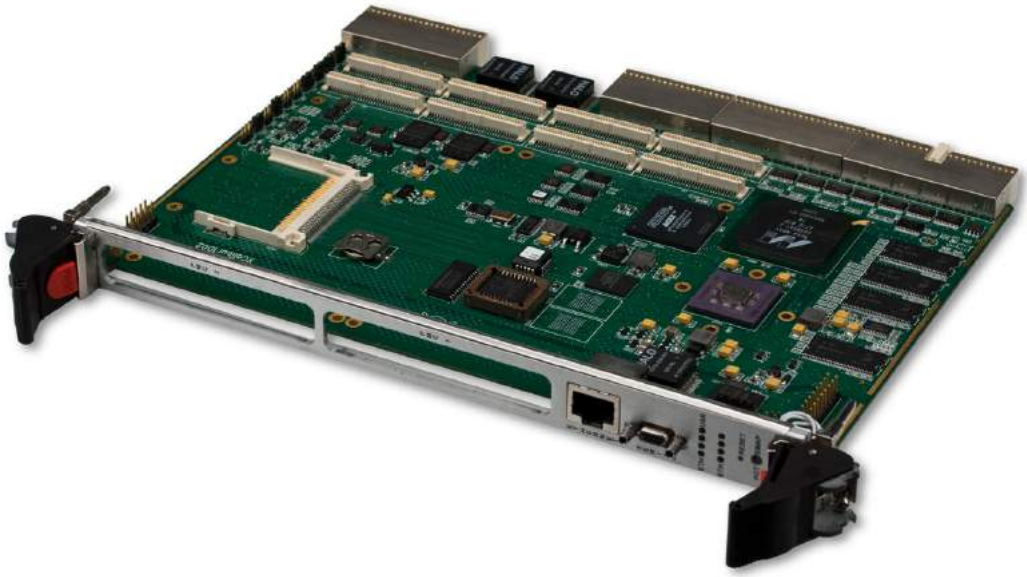
Find the *Extreme Engineering Solutions XCalibur1002* at our website: *Click HERE*

XCalibur1002

End Of Life

IBM 750GX Processor-Based Air-Cooled 6U cPCI Module with Marvell Discovery III Bridge

- IBM 750 GX PowerPC 1.0 GHz processor
- Dual PCI-X PrPMC slots
- Autosense system/peripheral slot
- Hot Swap support
- Up to 1 GB DDR-400 SDRAM
- Up to 144 MB soldered NOR flash
- CompactFlash socket
- Front panel serial port
- Front panel 10/100/1000 Gigabit Ethernet ports
- Two PICMG 2.16 backplane Ethernet ports
- Complies with PICMG 2.0, 2.1, 2.3, 2.9, and 2.16
- VxWorks BSP
- Linux BSP
- OSE BSP
- QNX Neutrino BSP
- Green Hills INTEGRITY BSP



XCalibur1002

The XCalibur1002 is a 6U CompactPCI single-board computer with a PICMG 2.16 Gigabit Ethernet backplane interface and a 1.0 GHz IBM PowerPC 750GX Processor. The XCalibur1002 is well-suited for telecom, industrial, and general computing applications.

The XCalibur1002 provides a highly-configurable processing platform. Its DDR-400 SDRAM provides up to 1 GB of local memory. An optional CompactFlash interface accepts up to 1 GB of non-volatile memory. Two PCI-X PrPMC slots are available for high bandwidth I/O.

Hot Swap support allows the XCalibur1002 to be installed into a live system without disrupting cPCI bus activity. In addition, system management bus support allows the card to be powered down and reset remotely through the IPMI interface.

For the system designer, the XCalibur1002 provides a feature-rich solution to support the next generation of embedded applications.

X-ES Extreme Engineering Solutions

...Always Fast

Extreme Engineering Solutions
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Processor

- IBM PowerPC 750GX processor
- 1.0 GHz max processor speed
- 200 MHz 60x bus speed
- 32 kB L1 instruction/data caches
- 1 MB L2 cache

Memory

- Up to 1 GB DDR-400 SDRAM
- Up to 144 MB soldered NOR flash
- 512 kB socketed flash
- 512 byte SEEPROM
- 32 kB FRAM

cPCI

- PICMG 2.1 (Hot Swap support)
- PICMG 2.3 (routes PMC I/O to P3 and P5)
- PICMG 2.9 (dedicated IPMI controller)
- PICMG 2.16 (two 10/100/1000BASE-T Ethernet ports)

PCI-X PMC Slots

- Maximum aggregate bandwidth of 1 Gb/s
- Processor PMC (PrPMC) support
- 10 mm stacking height

Software Support

- Linux BSP
- Wind River VxWorks BSP
- OSE BSP
- QNX Neutrino BSP
- Greens Hills INTEGRITY BSP
- Ethernet and IPMI drivers

Environmental Requirements

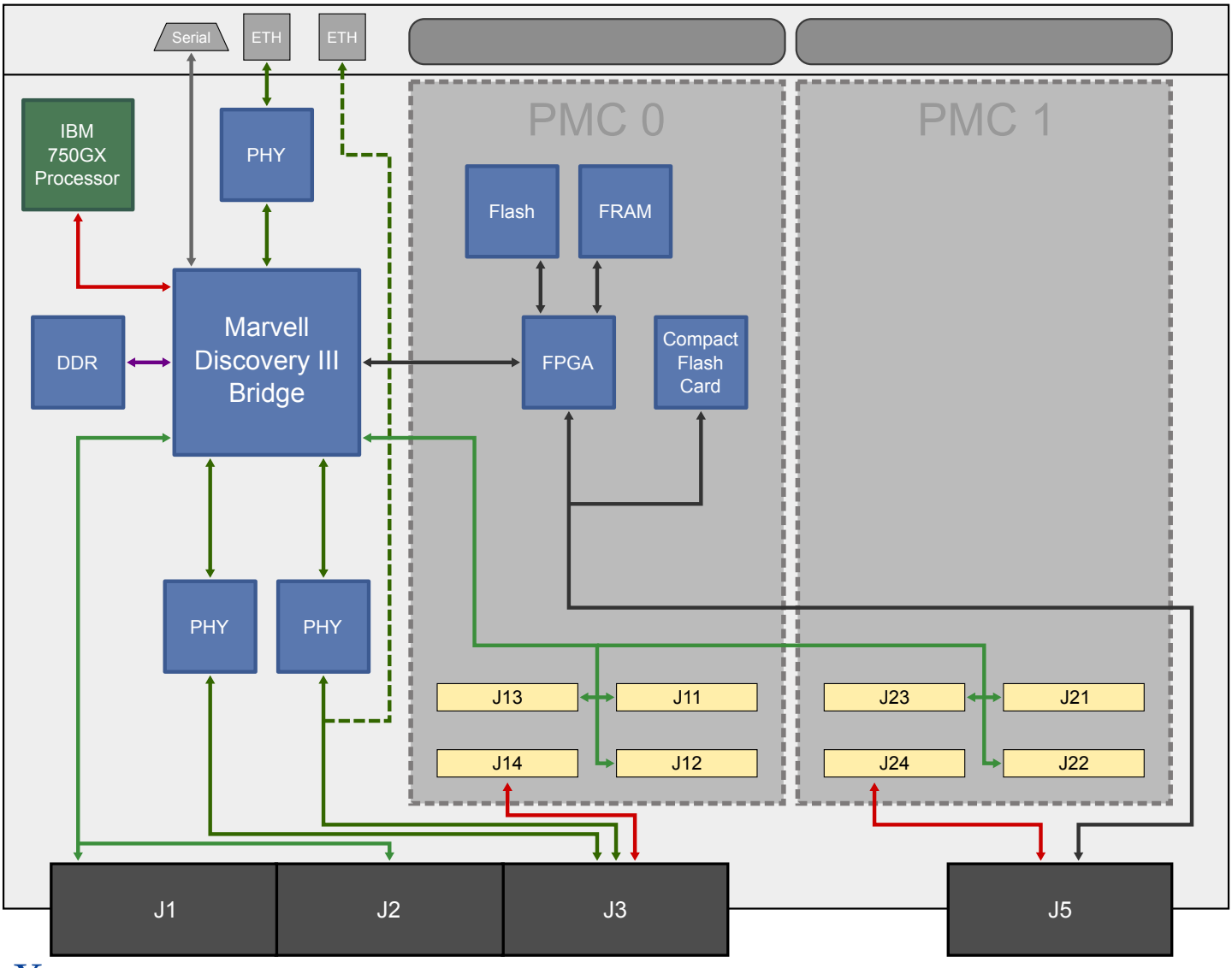
Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

Power Requirements

- 3.3 V, 3.03 A, 10 W
- 5 V, 2.5 A, 12.5 W

Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C ambient
Vibration	0.002 g²/Hz, 5 to 2000 Hz	0.04 g²/Hz (maximum), 5 to 2000 Hz	0.1 g²/Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing



XCalibur1002

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