

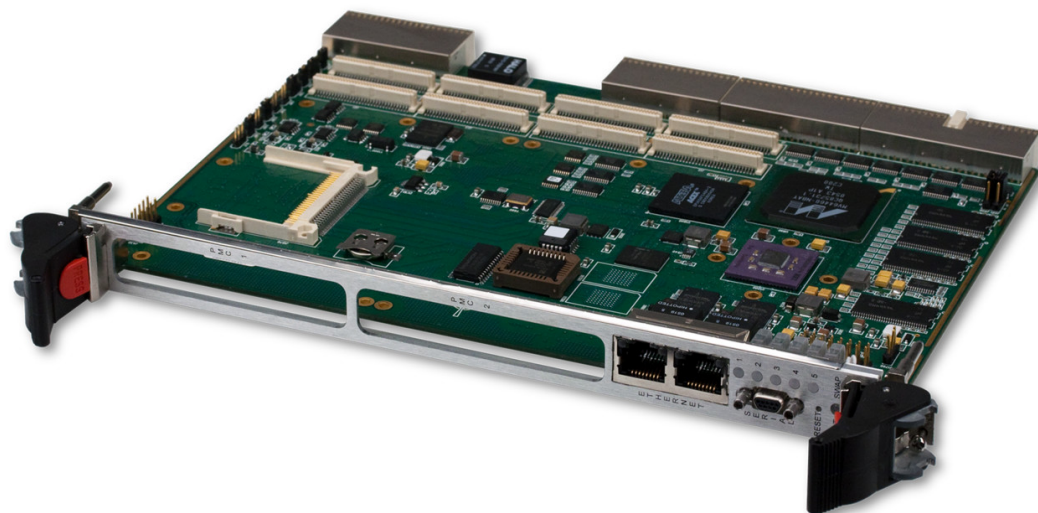
XCalibur1003

End Of Life

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

Please contact X-ES Sales

- ▶ IBM 750GX PowerPC
1.0 GHz processor
- ▶ Dual PCI-X PrPMC slots
- ▶ Hot Swap support
- ▶ Up to 1 GB DDR-400
SDRAM
- ▶ Up to 144 MB soldered
NOR flash
- ▶ CompactFlash socket
- ▶ Front panel serial port
- ▶ Three front panel
10/100/1000 Gigabit
Ethernet ports
- ▶ Complies to PICMG 2.0,
2.1, 2.3, 2.9, and 2.16
- ▶ J3/J5 pinout compatible
with Force cPCI-680/690
SBCs
- ▶ Wind River VxWorks BSP
- ▶ Linux BSP
- ▶ OSE BSP
- ▶ QNX Neutrino BSP
- ▶ Green Hills INTEGRITY
BSP



XCalibur1003

The XCalibur1003 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. It is well-suited for telecom, industrial, and general computing applications. The XCalibur1003 is pinout-compatible with the discontinued Force cPCI-680 and cPCI-690 boards, which makes it an excellent replacement for these products.

The XCalibur1003 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 XCalibur1003 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.

For the system designer, the XCalibur1003 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
- 32 kB FRAM

Ethernet

- Three 10/100/1000 Gigabit Ethernet ports

cPCI

- Operates in system or peripheral slot (jumper selectable)
- 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

- 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

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, 3 A, 15 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 g ² /Hz, 5 to 2000 Hz	0.04 g ² /Hz (maximum), 5 to 2000 Hz	0.1 g ² /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

