



CPCI-7055RC

PowerPC® CompactPCI® Single Board Computer

Features

- Processor speeds up to 1.0 GHz
- Operating temperature from 0° to +55° C
- Up to 1 GB DDR 400 SDRAM
- Up to 2 GB CompactFlash
- Three independent 10/100/1000BaseTX Ethernet ports
- Ultra DMA IDE Controller
- 64-bit/66 MHz CompactPCI bus interface
- User programmable watchdog timer
- Passive heat sink
- Operating system support for VxWorks® and Linux®
- RoHS compliant

The CPCI-7055RC is a single slot CompactPCI single board computer (SBC) offering exceptional processing performance via the 750GX PowerPC processor, that delivers a solution with the robustness, reliability, flexibility and system features required for your most demanding embedded computing applications. It features the next generation Marvell® Discovery™ III chipset and offers up to 1 GB Double Data Rate (DDR) 400 SDRAM. The CPCI-7055RC also features dual PMC sites (64-bit/100 MHz PCI-X, backward compatible to 5V, 33 MHz PCI), up to 2 GB CompactFlash option, three high performance serial ports, and three 10/100/1000 Ethernet ports.

A few key benefits of the CPCI-7055RC, that help make this SBC the market leader, are highlighted below:

- High performance control and data/vector processing available on the IBM 750 processor permit integration of computing functions and data processing in a single slot.
- Extensive peripheral interfaces simplify system configuration and reduce the number of hardware pieces required to implement your solution.
- High-density non-volatile storage options provide the flexibility for stand-alone operations or extensive data logging.
- User configurable PICMG 2.16, providing Ethernet across the backplane as well as supporting PICMG 2.1 Rev. 1.0 CompactPCI Hot Swap giving system-level flexibility for multiple CompactPCI system functions.
- Onboard monitoring of temperature and voltages with software access enables application-dependent environmental solutions.

Specifications

CPU

- IBM 750GX PowerPC 1.0 GHz
- Advanced L2 cache
 - 1 MB (IBM 750GX)
- Utilizes the Next Generation Marvell PowerPC chipset with 2 MB integrated SRAM

SDRAM

- Up to 1 GB DDR 400 SDRAM with ECC

CompactFlash

- Up to 2 GB of CompactFlash

Ethernet

- Three dedicated 10/100/1000BaseTX Ethernet ports
 - One via a RJ45 front panel port
 - Two available through a PICMG 2.16 or CompactPCI J3 backplane connection

PMC Expansion

- Two 64-bit/100 MHz PCI-X on PMC expansion sites
 - Backward compatible to 5V, 33 MHz
 - Supports double-wide PMC
- IEEE 1386.1 compliant

Serial Interfaces

- Three high performance serial ports: two support asynch RS232/422/RS485 on rear I/O J3, and one RS232 serial port on front panel using RJ45 connector

