

ICS-7003

Dual PMC carrier provides high bandwidth PCI Express interface

- Adapts two PMC cards to x8 PCI Express
- Each PMC site supports PCI-X allowing data rates up to 1 GByte/second
- Intelligent switch matrix provides user defined Pn4 connections between PMCs, or to FPDP II peripherals
- Transparent installation into PCIe systems – no additional drivers required



The ICS-7003 provides a high bandwidth dual PMC carrier compatible with eight-lane or sixteen-lane PCI Express interfaces found in desktop and server PCs. The product allows one or two PMC modules to achieve close to theoretical maximum data transfer rates across the PCIe bus. It also provides direct communication between the Pn4 connectors of the two modules, or with the two FPDP II connectors situated on the top edge of the carrier.

The product allows PMC modules to be installed in PCI Express slots as native equipment, again bringing high performance DSP and data acquisition capability to commodity servers and workstations. The ICS-7003 also addresses the challenge of moving data between the host processor and data producers (ADCs) or consumers (DACs). The eight-lane (x8) PCI Express interface provides much more bandwidth than a standard PCI slot (up to 2 GBytes/second in each direction simultaneously), relieving one of the primary challenges of high-speed data acquisition or playback. In addition to fighting obsolescence, the ICS-7003 increases the bandwidth available to the PMC cards in most cases.

The ICS-7003 also provides an excellent platform for construction of subsystem blades based on two PMCs. The intelligent switch between the PMC Pn4 connectors allows direct connection between the two PMC modules, avoiding the host processor and operating system completely.



FEATURES

General

- Full length (long) PCI form factor dual PMC carrier
- x8 PCI Express interface
- Two PMC sites support PCI-X 133 MHz
- Direct connections between PMC Pn4 interfaces, FPDP II
- No drivers required

I/O specifications

- Eight lane (x8) PCI Express, PCI-X PCI bus interfaces
- 2 x FPDP II interfaces

Environmental

- Approximately 490 LFM (forced air) cooling required
- 0 to +50° Celsius operating temperature
- Storage temperature -40 to +85° Celsius
- 95% non-condensing humidity

