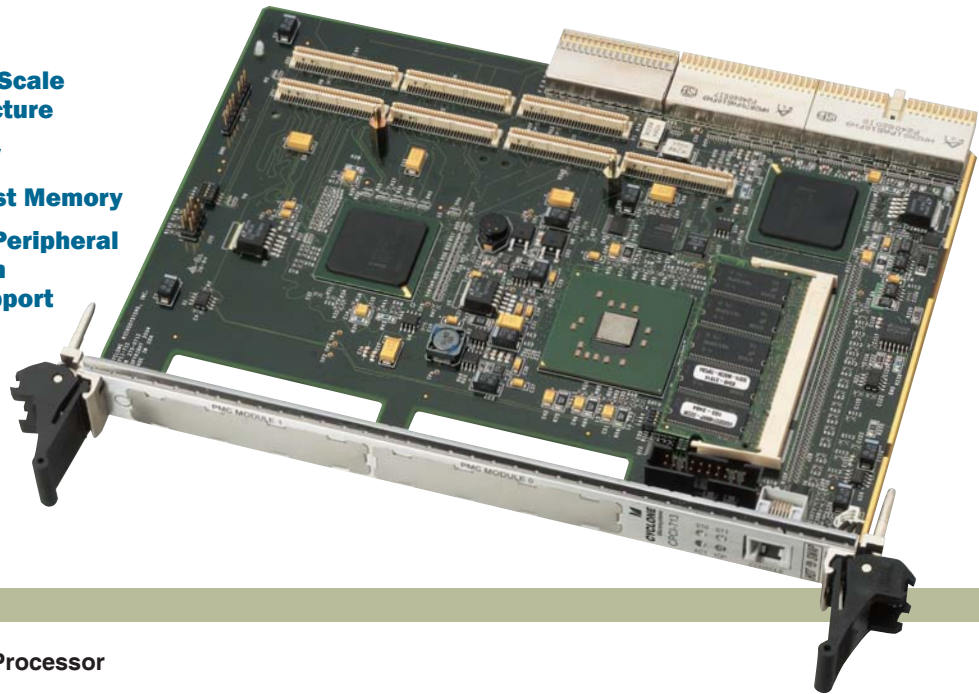


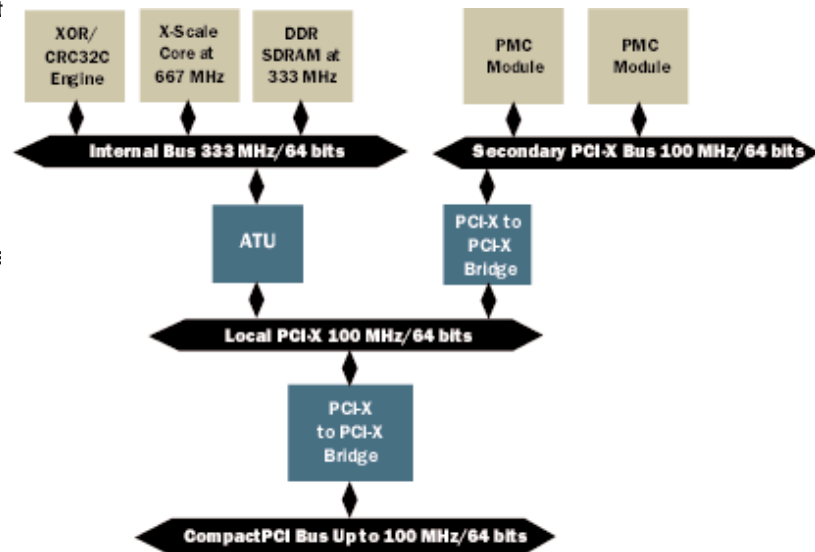
CPCI-713 Compact PCI Peripheral I/O Controller

- ◆ Intel 80331 XScale Microarchitecture
- ◆ I/O Flexibility
- ◆ Large and Fast Memory
- ◆ CompactPCI Peripheral Interface with Hot Swap Support



Features

- ◆ 80331 XScale Processor
- ◆ Up to 1 Gbyte DDR SDRAM at 333 MHz
- ◆ 64 bit Compact PCI Interface
- ◆ Peripheral Interface
- ◆ Hot Swap Support
- ◆ 64 bit Local PCI-X Bus
- ◆ Two PMC-X Module Locations
- ◆ 64 bit Interface
- ◆ 100 Mhz PCI-X Bus
- ◆ Eight Mbytes Flash ROM
- ◆ Console Serial Port
- ◆ Breeze Development Environment
- ◆ Board Support Packages for:
 - VxWorks
 - Linux 2.6

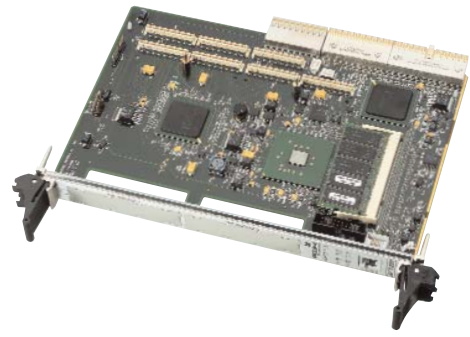


Product Description

The CPCI-713 is a high-performance CompactPCI Intelligent I/O Controller that expands system performance in advanced embedded systems such as telecom servers, data acquisition, video networking and other high-speed LAN/WAN applications.

The intelligent I/O controller features Intel's XScale 80331, a fast data movement and I/O processor, coupled together with a triple bus architecture for simultaneous data movement. High-speed 333 MHz DDR SDRAM and 64 bit/100 MHz PCI-X busses allow rapid throughput while dual PMC module positions permit I/O flexibility. The CPCI-713 supports PMC modules for Dual GbE, Ultra320 SCSI, and ATM. Cyclone also develops customer-specific PMC modules.

CPCI-713 Compact PCI Peripheral I/O Controller



Technical Specifications

Processor

Microprocessor	Intel XScale 80331 at 667 MHz
On-chip Cache (I/D)	32 Kbyte, 32 way, set associative

Memory

Memory Capacity	256, 512 Mbytes, or 1 Gbyte
Architecture	Synchronous Double Data Rate (DDR SDRAM) with optional ECC
Performance	333 MHz
Flash	8 Mbytes

PCI Interface

Primary PCI Interface	PCI-X Rev 1.0 (64 bit/133 MHz) +3V Signaling
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Ethernet Interface

Controller	82544GC Gigabit Ethernet Controller with Integrated PHY
Interface Speed	10/100/1000Base-T Auto Negotiable
Connectors	RJ-45, CAT5 UTP, on front panel
LEDs	Activity and Link status on front panel

PCI Mezzanine Card Slot IEEE P1386.1

Address/Data	A64/D64 PMC P11, 12, 13
PCI Bus Clock	33/66 or 100 MHz
Signaling	+3.3V
Power	+3.3V, +5V, +12V, 7.5 watts maximum
Module Types	Two single-wide

Miscellaneous

Two Temperature Sensors

Asynchronous Serial Port

Controller	16C550 UART
Speed	300 to 115,200 bps
Connector	RJ-11, on front panel

Environmental

Physical Dimensions	6U Eurocard
Height	9.187" (233.35mm)
Depth	6.299" (160mm)
Operating Temperatures	0 to 55 Degrees Celsius
Relative Humidity	0 - 95%

Power Requirements

+3.3V	3.08 Watts Typical, 4.4 Watt Max
+5V	0.08 Watts Typical, 0.11 Watts Max
+12V	0.01 Watts Typical, 0.01 Watt Max
n12V	0.01 Watts Typical, 0.01 Watts Max
Storage Temperatures	-55 to 125 Degree Celsius

Ordering Information

CM-713- [AA][BB]-[CCC]-[D]

AA	- PMC Module 0
BB	- PMC Module 1
CCC	- 256 - 256 Mbytes DDR SDRAM
	- 512 - 512 Mbytes DDR SDRAM
	- 1G - 1Gigabyte DDR SDRAM
D	- B - Breeze Development Environment
	V - VxWorks
	L - Linux 2.6

800-0713 - CPCI-713 User's Manual