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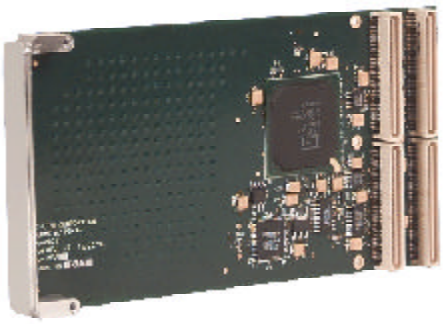
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Find the *Mercury Computer Systems / Echotek RW++-PMC* at our website: *Click HERE*

PMC to RACE++™ INTERFACE MODULE

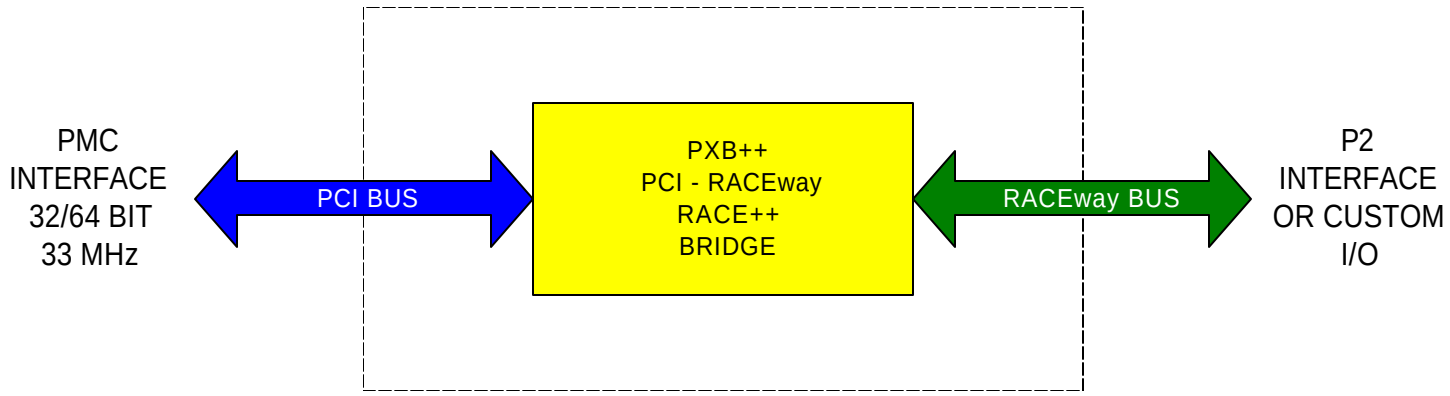
RW++-PMC



FEATURES

* PCI VERSION 2.1 COMPLIANT 32/64 BIT, 40 MHz RACEway
* ANSI/VITA 5 COMPLIANT
* COMPATIBLE WITH 66 MHz RACE++
* RACEway BUS/MASTER AND SLAVE INTERFACE
* PCI BUS MASTER AND SLAVE INTERFACE
* 3.3 OR 5 VOLT PCI SIGNALING
* RACEway DATA BURST RATES UP TO 160 MBYTES/ SEC.
* RACE++ BURST DATA RATES TO 264 MBYTES/SEC.
* TRANSFERS INITIATED FROM THE PCI INTERFACE
* DMA SUPPORT THROUGH LINK-LIST DMA CONTROLLER
* VxWORKS REAL TIME OPERATING SYSTEM BOARD SUPPORT PACKAGE
* SOFTWARE SUPPORT FOR PROGRAMMING UNDER MCOS

PMC to RACE++ INTERFACE MODULE BLOCK DIAGRAM



ECHOTEK CORPORATION 555 SPARKMAN DRIVE #400 HUNTSVILLE, AL 35816
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PMC TO RACE++ INTERFACE MODULE HIGHLIGHTS

ECHOTEK's RW++-PMC provides a high performance RACE++ Master and Slave interface to many processor boards in a convenient PMC form factor. This product opens access to the RACEway and RACE++ switch fabric to any VME board with a standard PMC site. The RACE++-PMC bridges data from the RACEway or RACE++ fabric to the PCI Bus at either 32 or 64 bits wide using the PXB++ ASIC. The RW++-PMC module operates in the RACE++ mode (66 MHz) or RACE 1.0 mode (40 MHz) maintaining compatibility with RACE 1.0 systems.

Echotek provides VxWorks software support as well as support for programming under MCOS.

Data transfer is controlled either via direct access or by a linked-list DMA controller with peak data transfer rate being 160 MBytes/sec using RACE 1.0 and 264 MBytes/sec using RACE++. Transfers may be initiated and controlled from either the RACEway side or the PCI side.

Specifications	
Size and Form Factor	Single Width PMC Module
Power Requirements	5 Volts, 1.2 A
RACEway Interface	ANSI/VITA 5-1994 (40 MHz) Mercury RACE++ (66 MHz)
PCI Interface	PCI Ver 2.1 Compliant, 32 Bits and 64 Bits

Ordering Information

Model	Part Number	Ruggedization	Options
RW++-PMC	12-0021/CC291A	Commercial	
RW++-PMC	12-0021/CC395	Extended Temperature	
RW++-PMC-L200C	12-0041/CC312	Conduction Cooled	

Ruggedization Levels	Operating Temp (°C)	Storage Temp (°C)	Vibration	Shock	Humidity	Notes
Commercial	0 to +55°C with 300ft./ min. airflow	-50 to +85°C	0.002g2/Hz from 10 to 2000Hz random and 2g sinusidal from 5 to 500 Hz	20g peak sawtooth, 11mS duration	Up to 95% RH	Commercial Grade, cooled by blown air, for use in benign environments and software development applications
Extended Temperature	-20 to +65°C with 300ft./ min. airflow	-50 to +85°C	0.002g2/Hz from 10 to 2000Hz random and 2g sinusidal from 5 to 500 Hz	20g peak sawtooth, 11mS duration	Up to 95% RH with varying temp., 10 cycles, 240 hrs.	Similar to standard but conformally coated and temperature characterized.
Conduction Cooled	-40 to +75°C at the normal interface	-50 to +85°C	Random, 0.1g2/Hz from 15 to 2000Hz per MIL-STD-810E ~12g RMS	40g peak sawtooth, 11mS duration	Up to 95% RH with varying temp., 10 cycles, 240 hrs.	Mechanically compliant with IEEE-1101.2-1992. Designed for severe environment applications with high levels of shock and vibration, small space envelope and restricted cooling. Optional Environment Stress Screening

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