

# PMC SATA Controller



## RRT-PMC-SATA-CONTROLLER

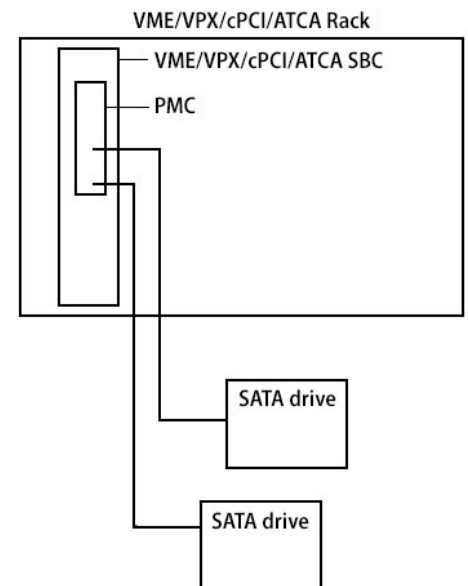
The PMC SATA Controller is a PMC Mezzanine card with a dual-channel 64-bit PCI/PCI-X SATA 3 controller with 2 SATA connectors via front panel.



Provides external boot drive and/or disk storage for VPX, VME, cPCI and ATCA single board computers (SBC) with PMC slot.

## FEATURES INCLUDE

- PMC PCI/PCI-X 32 /64-bit interface per VITA39 and IEEE 1386-2001 (3.3v PCI interface)
- Transfer rates up to 500 MB/s
- High performance SATA3 transfer rates
- Backwards compatible with SATA1 and SATA2
- 2 Independent SATA interfaces
- Standard 7-pin SATA interface
- LED indication for Power, Reset and Activity
- Compatible with all SBCs with a PMC slot
- Extended temperature version available
- SATA cable secured by rugged retainer clip
- ROHS compliant
- For -X version all parts rated for -40C to 85C, no parts derating
- Robust design for extreme temperature, shock and vibration environments
- VXWorks™ , Linux and Windows drivers support



# Ordering Information

**RRT-PMC-SATA-CONTROLLER** - UR - X

Options May be left blank

**Conformal Coating**

UR = polyurethane  
AR = acrylic

**Extended Temperature Range**

X = -40°C to 85°C

## PMC SATA Controller Specifications

PMC Performance	
Interface	PCI revision 3, PCI/PCI-X, 3V PCI signaling, 32/64-bit at 25-133 MHz
Sustained Throughput Read/Write	Up to 500 MB/s
SATA Performance	
Interface	Supports SATA 1, 2 and 3 operation
Sustained Throughput Read/Write	Up to 500 MB/s
Reliability	
MTBF (1)	3 million hours
Power	
Voltage	+5V +/- 5%; Voltage 3.3 +/- 0.3V
Watts-idle	3W
Watts-active	4W max
Environmental	
Temperature Operating, VITA 47 Class	0° to 70°C , AC1, CC1
Temperature Operating (2) , VITA 47 Class	-40° to 85°C , CC4, AC3
Temperature Storage	-55° to 95°C
Relative Humidity	5% to 95%
Altitude	80,000 ft (26,000 meters)
Shock (3), VITA 47 Class 0S2	40g, 11 millisecond terminal sawtooth pulse
Vibration (4)	0.1g <sup>2</sup> /Hz
Physical	
Form Factor	Single CMC
Weight	12 oz. max (340g)
Dimensions (W x L x H)	2.913" x 5.866" x 0.612" (74mm x 149mm x 15.5mm)
1) Telcordia SR-322, Issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0). 2) Thermal qualification per MIL-STD-810, Method 501 Procedure II, and MIL-STD-810, Method 502, Procedure II. 3) Shock qualification per MIL-STD-810F, Method 516, Procedure I. 4) Vibration qualification per MIL-STD-810F, Method 514, Procedure I.	

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