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
### PMC SATA Controller Specifications

#### Interface Performance
- **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
- **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:** 0º to 70ºC, AC1, CC1
- **Temperature Operating (2), VITA 47 Class:** -40º to 85ºC, CC4, AC3
- **Temperature Storage:** -55º to 95ºC
- **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):** 0.1g²/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.

Red Rock Technologies, Inc. reserves the right to modify, change or discontinue specific products within its product line at its own discretion. Red Rock Technologies, Inc. does not assume any liability resulting from the application or use of its products. The information contained herein has been checked and is believed to be entirely accurate, however, no responsibility is assumed for inaccuracies. “Red Rock Technologies” and the mountain logo are registered trademarks of Red Rock Technologies, Inc.

© Copyright 2018 Red Rock Technologies, Inc. All rights reserved. (Rev. 11/15/17)