



## DATASHEET

### Key Applications

- Embedded Computer Solutions needing SCSI Attached Storage
- Internal/External storage
- Low Cost Raid functionality for VME or CompactPCI based systems

### FEATURES

- Single or Dual Ultra320 SCSI Channels
- 133 MHz, 64 Bit PCI-X Interface
- Support for 32/64-Bit and 33/66 MHz PCI Bus
- Connects up to 30 devices
- Mirroring or Striping
- Front and Rear Panel I/O Options
- Supports all major OSs
- Fusion-MPT architecture
- 3 year limited warranty

### PCI MEZZANINE SCSI ADAPTERS

The SANBlaze SB-PMC320 Dual Channel, Ultra320 SCSI PMC adapter provides industry leading SCSI device connectivity for embedded systems based on VME or CompactPCI. The SB-PMC320 has two independent Ultra320 SCSI channels, each allowing up to 320 MB/sec transfer rates. Each channel supports up to 15 SCSI devices.

The SB-PMC320 also provides Raid 0 (striping) or Raid 1 (mirroring) functionality on either channel.

The SB-PMC320 series of Ultra320 SCSI PMC adapters are available in 3 configurations. The dual channel version is available with either 2 front panel ports via 68 pin VHDCI connectors or 1 front panel and 1 rear I/O port (via J/P 4). A single channel version of the card is available with a single front panel port via a 68 pin VHDCI connector. These options allow for maximum design flexibility, while delivering the high performance and Raid functionality of Ultra320 in a PMC form factor.

### ARCHITECTURE

The SANBlaze PMC320 product family is based on the LSI Logic 53C1030 SCSI Controller and incorporates LSI Logic's Fusion-MPT architecture. Fusion-MPT provides the flexibility and rich feature set to make RAID features such as Integrated Mirroring and Integrated Striping available at no additional cost.

**Technical Specifications:**

PCI Bus	64-Bit, 133MHz PCI-X, backward compatible with PCI
PCI Modes	Bus Master DMA
PCI Data Burst Transfer Rate	132 MB/s (PCI 32-Bit bus @ 33 MHz) 264 MB/s (PCI 64-Bit bus @ 33 MHz) 528 MB/s (PCI 64-Bit bus @ 66 MHz)
Form Factor	2.913" x 5.866", PCI Mezzanine Card (PMC)
PCI Card Types	Universal Card (3.3 V and 5V signaling)
PCI Voltage	+3.3V ± 5%
PCI Power	< +10.0 W excluding termination power
Bracket	Standard PMC Bracket
Certification Level	PCI 2.2, PCI-X 1.0a
SCSI Bus	Wide Ultra320, LVD(Low Voltage Differential) and Ultra Wide SE (Single Ended) 640 MBps for two SCSI channels
<b>Connectors</b>	
Front I/O	68-Pin VHDCI per channel
Rear I/O	Via J/P4 (Carrier, RTM and PIM available)
Termination	Universal (LVD/SE) termination Jumper and SW Control per channel
LED Indicators	On Board
BIOS Flash Memory	512K x 8 flash EEPROM
Raid Memory	32K x 8 NVSRAM

<b>OS Support</b>	<b>Versions</b>
Windows	NT4.0, Windows 2000, Windows 2003, XP
Linux	2.2, 2.4 and 2.6 kernels
Solaris	X.86 Versions 2.6, 2.7, 2.8 and 2.9
Sun Solaris	V 2.6 and greater
UnixWare	2.12 and 7.X
SCO Unix	5.X
Netware	4.11, 4.2 and 5.X

<b>Environments</b>	<b>Operating</b>	<b>Storage</b>
Temperature	0°C to 55°C	-40°C to +105°C
Relative Humidity	5 to 90% non-condensing	5 to 90% non-condensing

**Ordering Information:**

<b>Part Number</b>	<b>Description</b>	<b>Front I/O</b>	<b>Rear I/O</b>
<b>SB PMC320 - A</b>	<b>2 Port Ultra320 SCSI PMC</b>	<b>2</b>	<b>0</b>
<b>SB PMC320 - B</b>	<b>1 Port Ultra320 SCSI PMC</b>	<b>1</b>	<b>0</b>
<b>SB PMC320 - C</b>	<b>2 Port Ultra320 SCSI PMC</b>	<b>1</b>	<b>1</b>

For more information please visit the SANBlaze web site at: [www.sanblaze.com](http://www.sanblaze.com) or send email to: [info@sanblaze.com](mailto:info@sanblaze.com).



SANBlaze is a leading provider of storage solutions for embedded systems, delivering high performance enterprise storage technologies and functionality to the embedded computing market. Our AMC, PMC, ATCA and cPCI board level storage solutions provide maximum design flexibility, ease of integration and cost effectiveness.