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PMC-PCMCIA

PMC with One
PC Card Slot

User Manual

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PMC-PCMCIA
PMC With One
PC Card Slot

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Product Description

Application Information

PMC-PCMCIA provides a PCMCIA slot suitable for memory cards and Type I and Type II 16-bit I/O cards.

The card is compliant with standard single-wide PMC specifications IEEE P1386.1.

Features

- One PCMCIA slot on a single-wide PCI Mezzanine Card (PMC).
- Supplied with our without front panel access (depending on order options)
- Uses TI PCI1131 PCI to Cardbus controller (Intel 82365 compatible)
- Full ExCA implementation of 16 bit PC Card
- Compatible with PCMCIA 2.1/JEIDA 4.2
- Supports up to five mappable windows and two I/O windows
- Power management supports 3.3 V and 5 V cards and programming voltages of +3.3/5 V and +12 V.

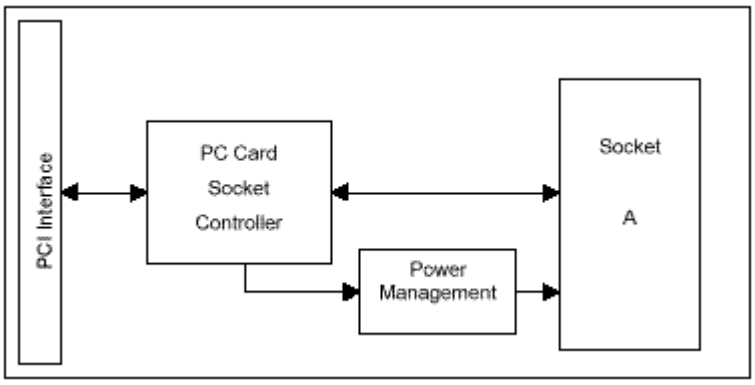


Figure 1 PMC-PCMCIA Block Diagram

Functional Description

The TPMC871 supports only 16-bit PCMCIA cards (also known as PC Cards). For 16-bit PC Card control the TI PCI1131 is fully register compatible with the Intel 82365L-DF PC Card interface controller. The ExCA compatibility registers can be accessed indirectly via PC I/O address space or directly via PCI memory address space.

The PCI1131 provides a windowing mechanism to link the PCI space to 16-bit PC Card address space. Both of these memory and I/O windows are programmable by the host software in the ExCA registers of the PCI1131.

Memory Mapping

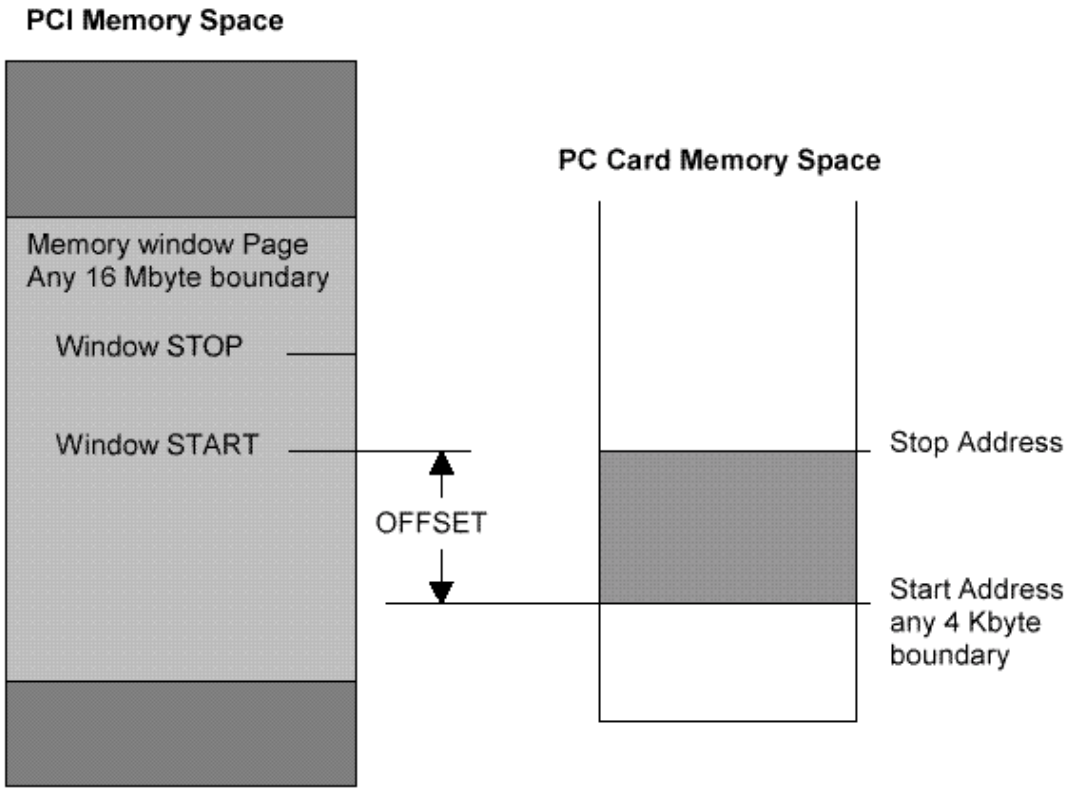


Figure 2 PCI to PC Card Memory Mapping

To open a memory window, software must provide the PCI1131 with memory start address, memory stop address, PC Card memory offset and Memory window page address. PC Card memory is accessed only if the address window is enabled and if the memory address is located between start and stop address.

Note that the memory window page register is only accessible via the PCI memory address space. For detailed information about window mapping mechanism and status and control registers please refer to the PCI1131 data sheet.

I/O Mapping

The 16-bit I/O card address space is asserted via 16-bit I/O addresses, resulting in the lower 64 Kbyte PCI I/O address space.

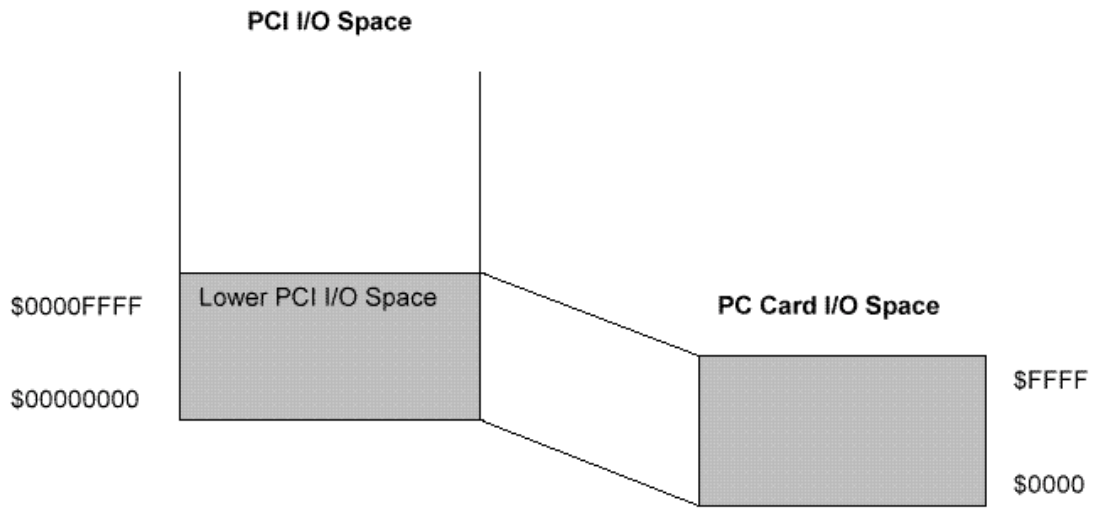


Figure 3 PCI to PC Card I/O Mapping

To open an I/O window, software must provide the PCI1131 with I/O start address, I/O stop address and I/O offset PC Card I/O is accessed only if the address window is enabled and if the I/O address is located between start and stop address.

For detailed information about window mapping mechanism and status and control registers please refer to the PCI1131 data sheet.

Interrupts

The interrupt mode of the INTA# output of the PC Card Socket Controller is used as PCI interrupt. The PCI1131 provides a card status change interrupt which can notify the system of change in the battery voltage levels, card insertion/removal detection, Ready/Busy# condition and status change. These various interrupt sources of the PC Card Socket Controller are individually programmable to INTA#.

For detailed information about interrupts please refer to the PCI1131 data sheet.

Specifications

Form Factor	Single PMC
PMC Conformance	32-bit PMC Specification IEEE P1386.1
PCI Interface	32-bit, 33 MHz 3.3V or 5V PCI Specification, Revision 2.1
PCI/PCMCIA Controller	TI PCI1131
Number of PCMCIA Slots	One for memory or Type I or Type II I/O
PCMCIA operating voltage	3.3 V or 5 V
PCMCIA programming voltage	+3.3/5 V and 12 V
Front Panel Card Access	Present on standard board (-STD) None on –NF variant
Rear Panel I/O Access	None
Dimensions	75.0 mm x 150.0 mm
Weight	0.076 kg (0.17 lb)
Power Requirements	+3.3 VDC, 100 mA typ +5 VDC, 30 mA typ Additional power consumed by PCMCIA card
Environmental	Operating temperature: 0° to 70° C Humidity: 5% to 95% non-condensing Storage: –25° to +125° C

Warranty and Repair

SBS Technologies, Inc. warrants this product to be free from defects in workmanship and materials under normal use and service and in its original, unmodified condition, for a period of one year from the time of purchase. If the product is found to be defective within the terms of this warranty, SBS Technologies' sole responsibility shall be to repair, or at SBS Technologies' sole option to replace, the defective product. The product must be returned, insured and shipped prepaid to SBS Technologies by the original customer. All replaced products become the sole property of SBS Technologies.

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SBS Technologies' products are not authorized for use as critical components in life support devices or systems without the express written approval of the General Manager of SBS Technologies, Inc. Commercial Group.

Service Policy

Before returning a product for repair, verify as well as possible that the suspected unit is at fault. Then call the Customer Service Department for a RETURN MATERIAL AUTHORIZATION (RMA) number. Carefully package the unit, in the original shipping carton if this is available, and ship prepaid and insured with the RMA number clearly written on the outside of the package. Include a return address and the telephone number of a technical contact. For out-of-warranty repairs, a purchase order for repair charges must accompany the return. SBS Technologies will not be responsible for damages due to improper packaging of returned items. For service SBS Technologies products not purchased directly from SBS Technologies, contact your reseller. Products returned to SBS Technologies for repair by other than the original customer will be treated as out-of-warranty.

Out-of-Warranty Repairs

Out-of-warranty repairs will be billed on a material and labor basis. The current minimum repair charge is $100. Customer approval will be obtained before repairing any item if the repair charges will exceed one half of the quantity one list price for that unit. Return transportation and insurance will be billed as part of the repair and is in addition to the minimum charge.

For service, contact:

Customer Service Department
SBS Technologies, Inc.
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FAX (651) 905-4701
Email: support.commercial@sbs.com

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