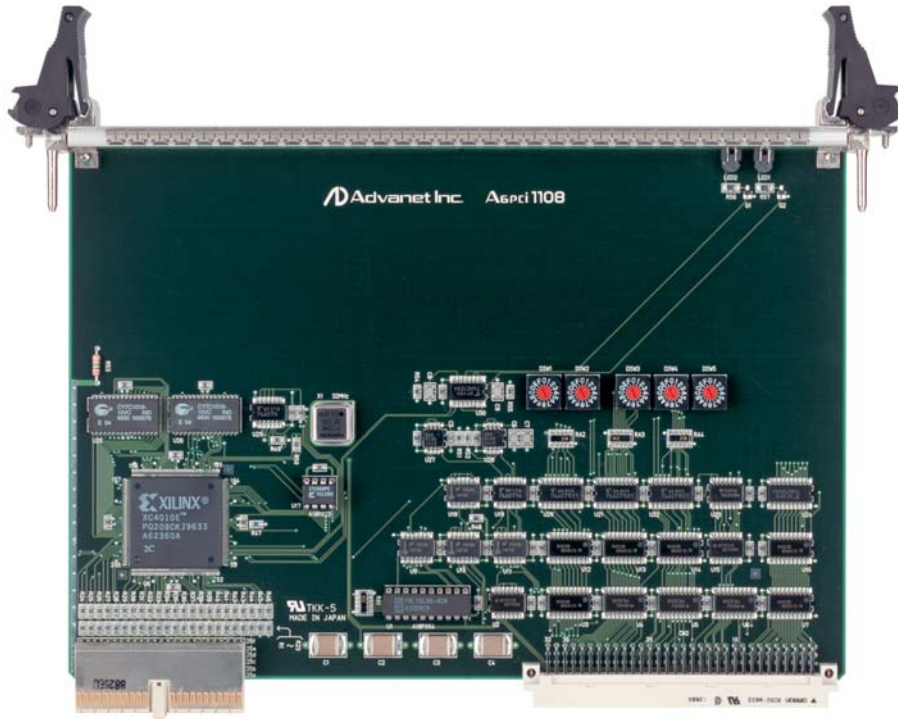


A6pci1108

CPCI -VME bus Bridge Board



Features

- Bridges CompactPCI and VME buses
- Can be used in combination with a hybrid system rack to configure a system that mixes CompactPCI and VME buses
- Enables the CPU board on the CompactPCI side to access the I/O board on the VME bus, allowing a smooth transition to a CompactPCI system
- Equipped with CompactPCI J1 and VME bus P1 connectors
- 6U board size and single slot width
- A24 and A16 space of the VME bus can be directly accessed from the CompactPCI bus side
- Equipped with a Byte swap function that supports the endian difference between the buses
- Function for buffering write data from the CompactPCI bus to the VME bus
- An interrupt can be issued to the CompactPCI side in accordance with VME bus interrupt line status
- Equipped with FIFO for communication between the buses, and this allows mutual interrupts to be issued
- Equipped with a VME bus system controller function
- Shared memory accessible from both the CompactPCI and VME bus

Specifications

CompactPCI bus specifications

- Bus standards : PCI Local Bus Specification Revision 2.1
PICMG 2.0 R2.1 CompactPCI Specification
- I/O signal level : 5V TTL
- Space occupied by the board : 16Mbytes (memory space)
- Interrupt : One used (Interrupt trigger is one of the types listed below)
 - VME bus IRQ1 to IRQ7 ······ 7
 - VME bus SYSRESET ······ 1
 - VME bus SYSFAIL ······ 1
 - VME bus ACFAIL ······ 1
 - FIFO writing from the VME bus ··· 1
 - FIFO error ······ 1

VME bus specifications

- Bus standard : VMEbus Revision C.3
- Bus master function : A24/A16, D16/D08(E0), AM codes 29H and 39H
- Bus slave function :
 - A24/A16, D16/D08(E0), AM codes 29H, 2DH, 39H and 3DH
 - Occupies 32Bytes in A16 space (bridge control register, FIFO)
 - Occupies 256KBytes in A24 space (shared memory)
- Arbiter function : Round-robin arbiter
- Interrupter function : One of the request lines IRQ1 to IRQ7 used to issue the two types of interrupts below
 - FIFO writing from the PCI bus
 - FIFO error
- Interrupt handler :
 - Responds to an arbitrary VME bus interrupt and obtains status ID
- Bus monitor function :
 - SYSRESET, SYSFAIL, ACFAIL and access timeout monitoring

Other features

- Shared memory : 256KBytes (128K x 16 bits)
- Board size : Single slot width, Double height (6U)



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Note: The following specifications and product appearance are subject to change for enhancement without notice.



ISO9001
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ISO14001
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