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Find the *ACTIS Computer VIPC-400* at our website: *Click HERE*

Documents

Documentation

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VIPC-400
Four slot IP Module Carrier for VME bus

The VIPC-400 from ACTIS Computer is a passive IP carrier for the VME Bus, which accepts up to four 16-bit IP modules or two double-width IP modules. Each IP slot may be operated independently at 8 MHz or 32 MHz. Interface clock frequencies, which are software programmable.

A complete software programmable logic for interrupt handling offers three independent interrupt request group for the eight interrupt sources. Power supply environment provides also a set of very useful functions like, fuse protection, T-Type filter, power faults status.

Specifications

- VME Bus double-height (6U) carrier board
- Accepts 4 IP modules (or 2 double-width modules)
- Conforms to VITA-4 IP Specification.
- Each IP can be operated at 8MHz or 32 MHz independently
- Conforms to VME Bus specification C.1 (IEC 821)
- I/O and ID access mode A16/D16.
- A16 base address defined by 5 jumpers.
- Very few jumpers to set: easily configured by the user
- Memory access in A24/D16 or A32/D16 modes
- A24 or A32 memory space access base address and size of block in A24 space set up by software
- All 22 address bits can be controlled in A24 access modes
- Memory access disabled on reset, avoids problems with any operating system initialization memory-search process
- Read-modify-write cycles supported
- IP interrupts directed to any 3 of the 7 VME Bus interrupt lines
- Carrier board can generate a vector (STATUS/ID byte) if any IP can not do so
- 4 input-output connectors on front panel, compatible with ACTIS Computer standard cables to external adaptors
- LED indicators on front panel show IP access
- Flashing red LED shows IP power faults

The input-output spaces and ID spaces for the IPs are accessed in A16:D16 mode from the VME Bus, selected by jumpers. Memory access may be defined in A24 space or in A32 space.

The base address, access mode and size are software controlled.
In the A32 mode, each IP is allocated 8 Mbytes of memory while in the A24 mode the allocated memory space of the VME Bus may be set to 128 kbytes per IP (minimum) to 2 Mbytes per IP (maximum). It is possible to set the upper memory address bits in the A24 modes by means of a register: if this register is not set the default values of the upper bits are zeros. Memory access is disabled at reset, and then may be enabled or disabled by software.

A very easily managed interrupt routing scheme provides for up to 3 interrupt lines on the VME Bus to be driven. Each group can accept either of the two interrupt lines from each IP. A rotating priority scheme is used within each group for the 4 possible inputs. The output from each group is set to drive any of the 7 VME Bus interrupt lines by means of a software-set register. This is cleared by reset, so disabling interrupts. An interrupt acknowledge vector (STATUS/ID) register is included, and may be set by software to return a vector in cases where an IP does not have the capability to do so.

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Ordering information

VIPC-400	VME 6U, four slot IP module carrier. IP output connectors on front panel. Without cables.
VIPC-400B	VME 6U, four slot IP module carrier. IP output connectors on front panel. Including four 85cm cables (part ref. CAB-85B)
VIPC-410	VME 6U, four slot IP module carrier. Internal IP output connectors. Without cables.
VIPC-410B	VME 6U, four slot IP module carrier. Internal IP output connectors. Including four 85 cm cables (part ref. CAB-85B)
CAB-85B	50 pin 1.27 mm cable, 85 cm length, with a standard DIN41651 a hi-density connectors

Last update 11/02/2001

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