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BIT 3 COMPUTER CORPORATION

DATA SHEET

MODEL 400-210/202/203/204/205/206

DUAL PORT RAM OPTIONS

Dual Port RAM cards are optional memory cards for computer systems that are interconnected by Bit 3 Adaptors*. Optional Dual Port RAM provides a memory buffer; saves the cost of additional memory cards; and for some systems, such as VMEbus systems, requires no additional card slots.

* Bit 3 Adaptors connect two computer systems via a memory mapped interface. A fully functional Adaptor interface consists of two printed circuit cards and a cable that connects the two cards.

The Dual Port RAM card installs on an Adaptor card and is accessible to either system. As shared memory, either system can address Dual Port RAM via random access reads and writes. Access to the memory card uses only the bandwidth of the accessing bus. Consequently, transfer speed is increased and data can be exchanged with minimal impact on the performance of the other system's bus. Both systems can access Dual Port RAM simultaneously with the Adaptor arbitrating accesses.

Bit 3 Adaptors provide access to Dual Port RAM by a chassis at either end of the Adaptor cable. Dual Port RAM is treated as global memory and access to it is accomplished identically to bus memory access. Direct Mode, a method of communication used by all Bit 3 Adaptors, allows Dual Port RAM addresses to be mapped one-for-one to address space on each system's bus. The target addresses need not be the same for both buses.

Most Bit 3 Adaptors also support Page Mode Dual Port RAM access. Page Mode addressing allows a relatively small range of addresses on a bus to be used as a "window" for access to all Dual Port RAM. Window size is variable, from 64K to 1M byte. When a system accesses an address within the window, the Adaptor decodes only the lower 16 - 20 address bits. The upper address bits for the Dual Port RAM destination address are provided by a programmable Adaptor register. The number of upper address bits used can be changed by an I/O write instruction.

FEATURES

* Supports 32-bit data access when used on most systems except PC/AT, MULTIBUS and Q22-bus systems.

* 3" x 5" printed circuit card.

* Low profile.

* Installs component side down on the Adaptor card.

* Standoff holds the installed card securely in place.

* Requires no additional slots in a VMEbus chassis.

* Specially designed Grant Continuity cards are available for Q22-bus installations**.

* Static RAM and dynamic RAM Dual Port RAM cards are available. See specifications below.

** Q22-bus inter-card spacing is .5 inches. A Bit 3 Adaptor card for the Q22-bus with a Dual Port RAM card installed extends into the adjacent slot's space. A half-height Q22-bus card, however, can be installed in the remaining space within the slot. The half-height card plugs into the slot's C and D connectors; a Grant Continuity card, available from Bit 3, plugs into the A and B connectors behind the Dual Port RAM card. Consequently, two slots accommodate the Bit 3 Adaptor card, Q22-bus card, Dual Port RAM card and Grant Continuity card.

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SPECIFICATIONS

* Model# 400-201 --
Size: 32K byte
Type: Static
Speed From Local Bus**: .39 microsecond (usec)
Speed From Remote Bus**: 2.0 usec

* Model# 400-202 --
Size: 128K byte
Type: Static
Speed From Local Bus**: .39 usec
Speed From Remote Bus**: 2.0 usec

* Model# 400-203 --
Size: 1M byte
Type: Dynamic
Speed From Local Bus**: .45 usec
Speed From Remote Bus**: 2.0 usec

* Model# 400-204 --
Size: 2M byte
Type: Dynamic
Speed From Local Bus**: .45 usec
Speed From Remote Bus**: 2.0 usec

* Model# 400-205 --
Size: 4M byte
Type: Dynamic
Speed From Local Bus**: .45 usec
Speed From Remote Bus**: 2.0 usec

* Model# 400-206 --
Size: 8M byte
Type: Dynamic
Speed From Local Bus**: .45 usec
Speed From Remote Bus**: 2.0 usec

** Speeds vary somewhat depending on the type of bus and Adaptor card the Dual Port RAM is installed on.

BIT 3 ADAPTORS

Adaptors are currently available for the following buses and system platforms:

* Apple NuBus
* IBM PC/AT
* IBM RISC System/6000
* Sun SBus
* MULTIBUS I
* Sun SPARCstation
* DEC Q22-bus
* IBM Micro Channel
* HP Series 700
* EISA Bus
* VMEbus
* TURBOchannel
* GIO Bus

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* Silicon Graphics/GIO

Contact Bit 3 for information on new Adaptors for other buses.

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