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BIT 3 COMPUTER CORPORATION

DATA SHEET

MODEL 400-5, 400-6, 400-50 & 400-60

Fiber-Optic Interfaces for Bit 3 Adaptors

Bit 3's Model 400 Fiber-Optic Interfaces provide fiber-optic links between two computer chassis equipped with Adaptor cards. The Fiber-Optic Interfaces are 100% transparent to Adaptor functions. Configurations using cop conductor cable between two Adaptor cards will run without modification when Fiber-Optic Interfaces are adde

Fiber-Optic Interfaces resynchronize and reformat parallel data from Bit 3 Adaptors into high-speed serial data transmitted over an optical cable. All data transfer capabilities supported by Bit 3 Adaptors can be performed. F because of the inherent characteristics of the fiber-optic cable, the distance that data can travel between chassis extended and its immunity to electromagnetic interference is increased. Cable lengths to 2 kilometers (km) are

In addition, the Fiber-Optic Interfaces offer a choice of two error checking schemes: Basic and Enhanced. The checking mode is selected via a configuration jumper.

Because Fiber-Optic Interfaces are transparent additions to Bit 3 Adaptors, Adaptor cards in a chassis at either cable function as if the Fiber-Optic Interfaces were not present and can:

- Detect if all cables are present;
- Detect if the Adaptor card at the opposite end of the link is powered up; and
- The Adaptor requires no additional software support.

Bit 3 currently offers two Fiber-Optic Interface cards for use with Bit 3 VMEbus Adaptor cards:

- Model 400-5 (Two Fiber) Fiber-Optic Interface Card;
- Model 400-6 (Four Fiber) Fiber-Optic Interface Card.

Fiber-Optic Interface Modules, used with any Bit 3 Adaptor card, except Model 402, are also available:

- Model 400-50 (Two Fiber) Fiber-Optic Interface Module;
- Model 400-60 (Four Fiber) Fiber-Optic Interface Module.

The Model 400-6 Card and Model 400-60 Module are high-performance fiber-optic interfaces that accommoda fiber-optic cable. Model 400-6 is a printed circuit card that installs in a VMEbus chassis; consequently, the card by the VMEbus system.

Model 400-60 is the same as the Model 400-6 but its printed circuit card is housed in a stand-alone chassis with supply. The four-fiber models effectively support Adaptors, such as Models 467, 477, 487, 497 and 413, that al high-speed DMA Burst Mode data transfers for applications requiring above 15 Megabytes per second (M Byte

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The Model 400-5 Card and Model 400-50 Module, two-fiber fiber-optic cable versions, are economical solutio environments requiring less than 15M Bytes/sec peak DMA data transfer rates. As with the higher performance Model 400-5 is a printed circuit card that installs in a VMEbus chassis and Model 400-50 is a stand-alone modu

MODEL 400-5 (TWO FIBER) CARD

Model 400-5, an economical version of the Fiber-Optic Interface Card, provides all the advantages of a fiber-op VMEbus installations where Model 400-6 maximum performance is not a key issue. Connected by one duplex cable, the Model 400-5 uses one fiber for transmitted data and the other for received data.

Model 400-5 supports peak DMA data transfer rates to 15M Bytes/sec.

A set of two Fiber-Optic Interfaces adds a total latency of 1.6 microseconds to all transfers. Each meter of fiber adds an additional 10 nanoseconds (total round-trip time).

MODEL 400-6 (FOUR FIBER) CARD

Like the Model 400-5, Model 400-6 installs in a VMEbus chassis. It provides a peak DMA data transfer rate of Bytes/sec. Supporting two duplex fiber-optic cables, the Model 400-6 Fiber-Optic Interface Card uses two fiber transmitted data and the other two fibers for received data.

Added latency is the same as for the Model 400-5.

MODEL 400-50 (TWO FIBER) MODULE

Model 400-50, an economical version of the Fiber-Optic Interface Module, has a stand-alone chassis, interface power supply. It provides all the advantages of a fiber-optic link for situations where maximum performance is issue. Connected by one duplex fiber-optic cable, the Model 400-50 Module uses one fiber for transmitted data for received data. Model 400-50 provides the same performance and functionality as the Model 400-5 Card but fiber-optic capabilities for any Bit 3 Adaptor, except Model 402.

Model 400-50 supports DMA data transfer rates to 15M Bytes/sec. Added latency is the same as for the Model

MODEL 400-60 (FOUR FIBER) MODULE

Model 400-60 is a high-performance Fiber-Optic Interface Module with a stand-alone chassis, interface card an supply. The Model 400-60 Module provides the same performance and functionality as the Model 400-6 Card b provide fiber-optic capabilities for any Bit 3 Adaptor, except Model 402.

Model 400-60 provides a DMA data transfer bandwidth of up to 30M Bytes/sec. Supporting two duplex fiber-o the Model 400-60 Fiber-Optic Interface Module uses two fibers for transmitted data and the other two fibers fo data.

Added latency is the same as for the Model 400-5.

ERROR CHECKING

Two modes of error checking are supported: Basic and Enhanced.

Basic Error Checking is the simpler and faster scheme. Although its use increases throughput, only simple code provided. Enhanced Error Checking mode activates a second error checking circuit. This second circuit uses a c

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redundancy check (CRC) algorithm that detects additional errors.

BIT 3 FIBER-OPTIC CABLE

All fiber-optic cables are ordered separately so that you can specify the appropriate length for your installation.

Bit 3's fiber-optic cable is high-quality, OFNP-grade, 62.5/125 micron glass duplex cable with tight buffer cons ST-style connectors. The OFNP rating means that the cable meets the 1990 National Electrical Code's most stri flammability requirements for fiber-optic cable. It, therefore, can be routed through air ducts and above suspen without being enclosed in conduit.

Tight buffer construction enhances the cable's flexibility and resistance to crushing yet keeps the cable small in

Bit 3's standard fiber-optic cables are 5 meters (approximately 16 feet) in length. Custom lengths to 2 km are av

BIT 3 COPPER-CONDUCTOR CABLE

Model 400-50 and Model 400-60 Modules require an 8-foot, round, EMI-shielded, copper-conductor cable to c Module to the Adaptor card. The 8-foot cables are ordered separately so that you can order the appropriate cabl specific Bit 3 Adaptor cards:

- IBM PC/AT Adaptor cards use Model 400-124 cable.
- VMEbus, MULTIBUS and DEC Q22-bus Adaptor cards use Model 400-114 cable.
- Apple NuBus, IBM Micro Channel, Sun SBus, EISA Bus, and DEC TURBOchannel Adaptor cards use M 400-120 cable.

CONFIGURATION RULES

Two Fiber-Optic Interfaces and a Bit 3 Adaptor (includes two cards) are required for a functional link:

- Two Model 400-5 (Two Fiber) or two Model 400-6 (Four Fiber) Fiber-Optic Interface Cards can be used VMEbus Adaptor cards.
- One Model 400-5 (Two Fiber) Fiber-Optic Interface Card and one Model 400-50 (Two Fiber) Fiber-Optic Module, or one Model 400-6 (Four Fiber) Card and one Model 400-60 (Four Fiber) Module can link a V Adaptor card to any other Bit 3 Adaptor card, except a Model 402 card.
- Two Model 400-50 (Two Fiber) Modules or two Model 400-60 (Four Fiber) Modules can link any two B cards, except Model 402 cards.

A Fiber-Optic Interface Card is connected by two one-inch ribbon cables to the VMEbus Adaptor card.

A Fiber-Optic Interface Module connects to an installed Bit 3 Adaptor card via an 8-foot, round, EMI-shielded conductor cable.

Model 400-5 (Two Fiber) Cards and Model 400-50 (Two Fiber) Modules link fiber-optic components via one d fiber-optic cable. One duplex fiber-optic cable provides one path for transmitted data and one for received data.

The four-fiber models, Model 400-6 and Model 400-60, require two duplex fiber-optic cables. Using two duple cables allows higher transfer speed and optimal performance because there are two paths for transmitted data a received data.

TECHNICAL HIGHLIGHTS

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- 100% transparent operation.
- Supports DMA data transfers.
- Model 400-5 Card and Model 400-50 Module support two fibers: one transmit and one receive.
- Model 400-6 Card and Model 400-60 Module support four fibers: two for transmitting and two for receiv
- 15M Bytes/sec transfer rate - Model 400-5 Card and Model 400-50 Module.
- 30M Bytes/sec transfer rate - Model 400-6 Card and Model 400-60 Module.
- Two modes of error checking: Basic and Enhanced.
- Supports fiber-optic cable lengths to 2 km.
- 1330 nanometer LED-based Optical Data Link transmitter.
- PIN photodetector-based Optical Data Link receiver.
- One-inch ribbon cable with 26-pin connectors connect Fiber-Optic Interface Cards and Adaptor cards.
- 8-foot, round, EMI-shielded, copper-conductor cable connects Interface Modules and Adaptor cards.
- 62.5/125 micron glass duplex fiber-optic cable connects Fiber-Optic Interfaces.
- ST-style connectors.
- LED Ready and Active status indicators.
- Chassis dimensions - Models 400-50 and 400-60

  Height: 2.5 inches.
  Width: 12 inches.
  Depth: 10 inches.

- Model 400-50 and Model 400-60 power supply:

  Universal Input - automatically accepts 90 VAC to 260 VAC, 47 - 63 Hz.

- FCC A compliance - Models 400-50 and 400-60.
- UL 1950 listed - Models 400-50 and 400-60.
- VMEbus Interface cards meet IEEE 1014C specifications; draws only +5V at 3.5 Amps from VMEbus.

REQUIRED COMPONENTS

Model 400-5 & Model 400-6 Cards:

- Two Fiber-Optic Interfaces:

  Two Model 400-5 Cards, or one Model 400-5 Card and one Model 400-50 Module.
  Two Model 400-6 Cards, or one Model 400-6 Card and one Model 400-60 Module.

- A Bit 3 VMEbus Adaptor.
- One duplex fiber-optic cable for Model 400-5. Two duplex fiber-optic cables for Model 400-6.

Each Fiber-Optic Interface Card package includes one card, two one-inch ribbon cables with 26-pin connectors manual.

MODEL 400-50 & MODEL 400-60 MODULES

- Two Fiber-Optic Interfaces:

  Two Model 400-50 Modules, or one Model 400-50 Module and one Model 400-5 Card.
  Two Model 400-60 Modules, or one Model 400-60 Module and one Model 400-6 Card.

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- A Bit 3 Adaptor (except Model 402).
- An 8-foot, round, EMI-shielded, copper-conductor cable.
- One duplex fiber-optic cable for Model 400-50;

  Two duplex fiber-optic cables for Model 400-60.

Each Fiber-Optic Interface Module package includes one module (chassis with built-in interface card and powe power cord, and a manual. The copper-conductor cable is purchased separately.

COPPER-CONDUCTOR CABLE

- IBM PC/AT Adaptor cards use Model 400-124 cable.
- VMEbus, MULTIBUS and Q22-bus Adaptor cards use Model 400-114 cable.
- NuBus, Micro Channel, SBus, EISA Bus, and TURBOchannel Adaptor cards use Model 400-120 cable.

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