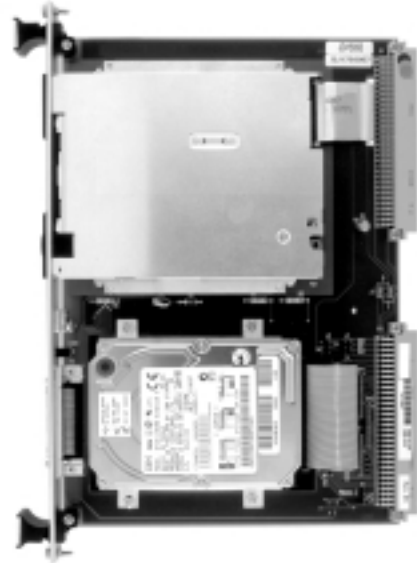


## VMEbus EIDE and Floppy Drive Module and SVME-192 Cable Assemblies

### Features

- *Accessory for the SVME-192 Pentium II® Single Board Computer*
- *Air-cooled version for development environments*
- *3 ½" 1.44 Mbyte floppy disk drive*
- *1 or 4 Gbyte IDE hard disk drive*
- *Supports Windows NT®, MS-DOS®, and other application programs*
- *Front Panel Disk Active LED*
- *Front Panel SCSI Connector*
- *Includes SVME-192 backpack and front panel and backpack I/O cables*



The CCA-192-EIDE companion card features integrated disk drive modules containing both an IDE hard drive and a floppy drive. The series is designed for use together with the SVME-192 Pentium II® Single Board Computer (SBC), providing a complete PC/AT™ system in two VMEbus slots. All drive modules are VMEbus 6U format with external SCSI, P1, and P2 connectors.

### Software Compatibility

The CCA-192-EIDE provides convenient software loading and storage capabilities to enhance the functionality of the SVME-192 SBC. The SVME-192 is compatible with software written for IBM PC-type computers, and as such, can run a wide variety of off-the-shelf operating systems and applications available for 80x86-based computers.

Examples of operating systems include Microsoft® MS-DOS® 6.2 and Windows NT®.

### CCA-192-EIDE Interface

The P1 connector supplies the required power for the CCA-192-EIDE disk drives. The CCA-192-EIDE is connected to the SVME/DMV-192 through the backpack module via a ribbon cable provided with the companion card. The cable connects between P2 of the companion card and J7 of the backpack module.

When the CCA-192-EIDE companion card is used in conjunction with the SVME/DMV-192, most of the I/O is available at the front panels of the two cards. The companion card provides access to the SCSI interface via its front panel and also provides access to a 4 Gbyte hard drive and 1.44 Mbyte floppy drive.

In addition, the CCA-192-EIDE handles the bus grant and interrupt acknowledge daisy-chain jumper functions on P1, eliminating the need to set those jumpers on the backplane.

**External SCSI Connection**

The flexible SCSI-2 interface supports multiple peripherals. This interface is commonly used with CD-ROM drives, high-performance workstations, and servers.

The SVME-192 provides a single-ended, 8-bit wide Fast SCSI-2 interface which supports SCSI-2 bus speeds of 5 Mbytes/second (asynchronous) or 10 Mbytes/second (synchronous). The DMA controller acts under processor request to transfer data between the local memory and the SCSI controller.

The SCSI-2 signals from the SVME-192 SBC are available on the CCA-192-EIDE front panel through a high-density 50-pin SCSI connector. This provides you with optimal accessibility and flexibility to connect external SCSI devices, for example, CD-ROM drives, external hard drives, and so on.

**IDE Compatible Hard Disk Drive**

For the storage of data on hard disks and other mass storage media such as tapes, the SVME-192 provides an IDE interface. The industry standard IDE interface is common on desktop PCs and allows the use of widely available low-cost IDE disk drives.

The CCA-192-EIDE drive is available with either 1 or 4 Gbyte hard drives.

**3 1/2" Floppy Drive**

The SVME/DMV-192 Single Board Computer is also capable of controlling a floppy disk drive with a data storage capacity of 2 Mbytes.

The CCA-192-EIDE drive modules include a 3 1/2", 1.44 Mbyte micro floppy disk drive that is accessible from the front panel.

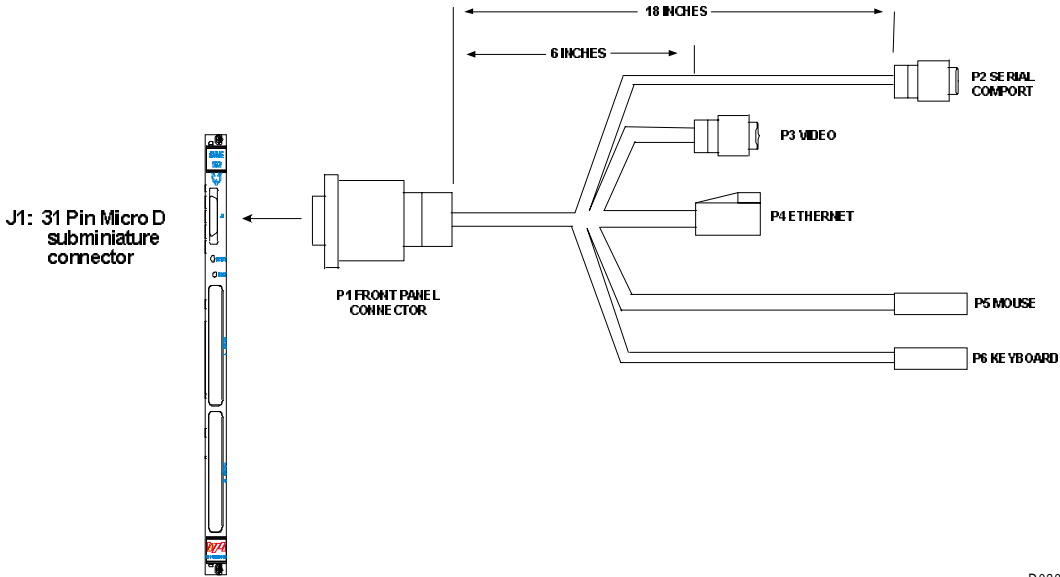
**SVME-192 Front Panel I/O Cable**

The SVME-192 has a single 31 pin connector on the front panel that provides access to serial COM 1, POST, Ethernet, and video, mouse, and keyboard signals. Shipped with the CCA-192-EIDE is a front panel cable that routes the channels to separate connectors (see Figure 1).

**Backpack Module**

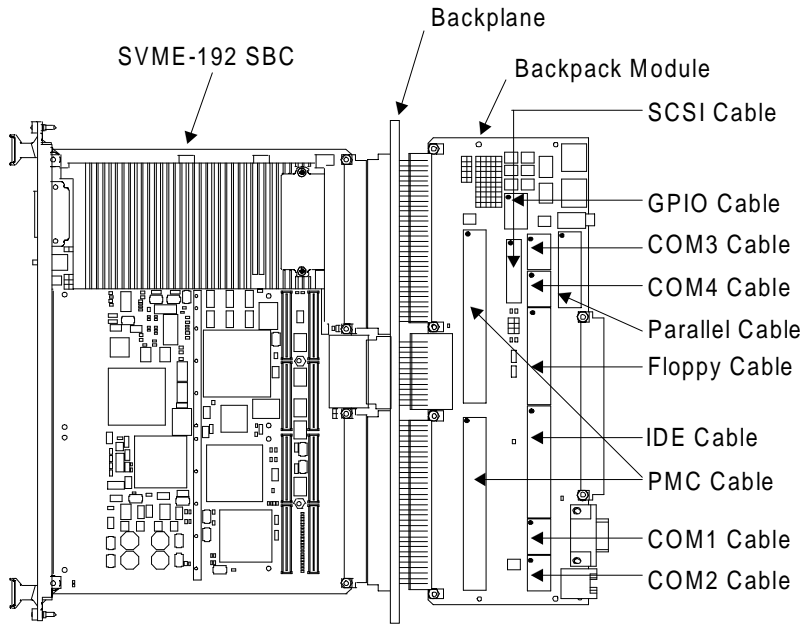
In order to maximize the I/O capacity of the SVME/DMV-192, a backpack paddle-card module PWB has been developed to facilitate connection to the P0, P1, and P2 interfaces of the card. Figure illustrates the concept of the paddle-card module.

When the SVME/DMV-192 is equipped with the backpack module, I/O cables can be attached providing access to the connectors and interfaces including industry-standard cable connections for the keyboard, mouse, speaker, video, and Ethernet™. The backpack module also interfaces to the CCA-192-EIDE ribbon cable.



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Figure 1: SVME-192 Front Panel I/O Cable

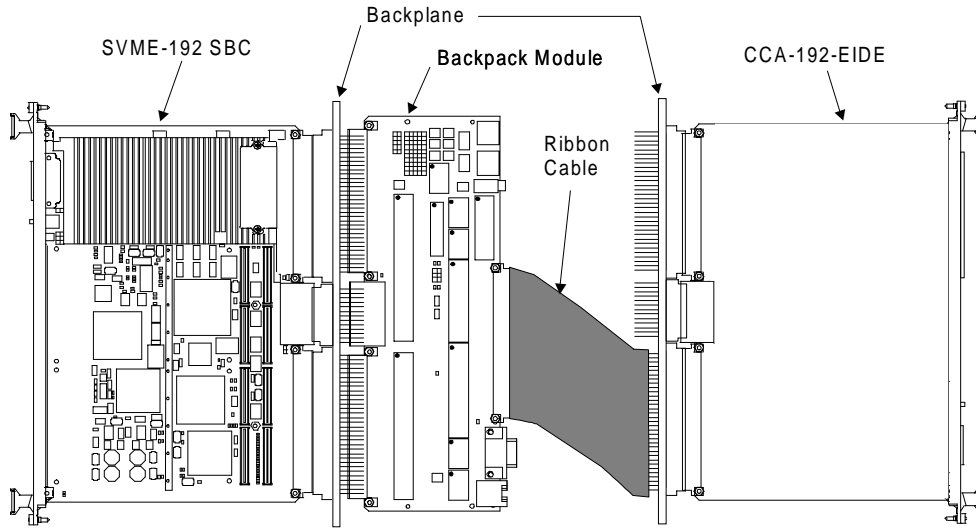


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Figure 2: SVME/DMV-192 Backpack Module

**Ruggedization Levels**

The CCA-192-EIDE is designed to meet DY 4's level 0 ruggedization guidelines. It is primarily intended to support development in a lab environment and has no extended ruggedization capabilities beyond standard commercial practices. Table 1 identifies the performance specifications for level 0 ruggedization.



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**Figure 3: Cabling of the SVME/DMV-192, Backpack Module, and the CCA-192-EIDE**

**Table 1: Specifications**

<b>General</b>	
Model	CCA-192-EIDE Series
Description	IDE hard disk with floppy disk drive module
Hardware Compatibility	SVME-192 Single Board Computer
<b>Disk Drive Interface</b>	
Floppy Disk	ST412 Interface
Hard Disk	IDE
<b>Electrical</b>	
Power (Spinup)	+5 Volts, 1.64 A (max.)
Power (Operating)	+5 Volts, 700 mA (max.)
<b>Physical</b>	
Size	6.9" x 9.187" x 4HP
Construction	Multi-Layer Printed Circuit, 4 layers
<b>Environmental</b>	
Temperature	0°C to 55°C Inlet Air, Operating -22°C to 60°C, Non-Operating
Cooling	None Required
Humidity	8 to 80% Relative Humidity, Non-Condensing
Shock	10 g max., Operating; 100 g max, Non-Operating

\*Refer to [Ruggedization Guidelines](#) in the Appendix.

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