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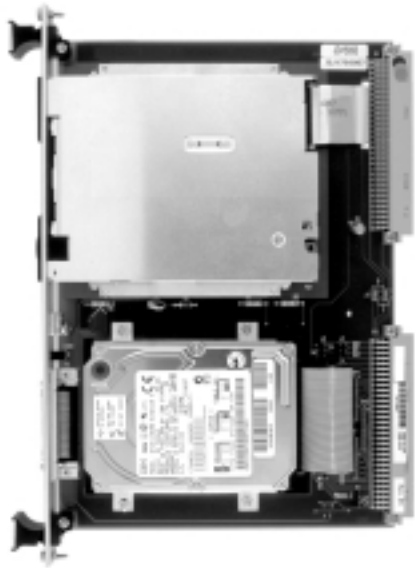
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Find the *Curtiss-Wright / DY-4 SVME-192-001* at our website: *Click HERE*

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 ½" 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 ½", 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.

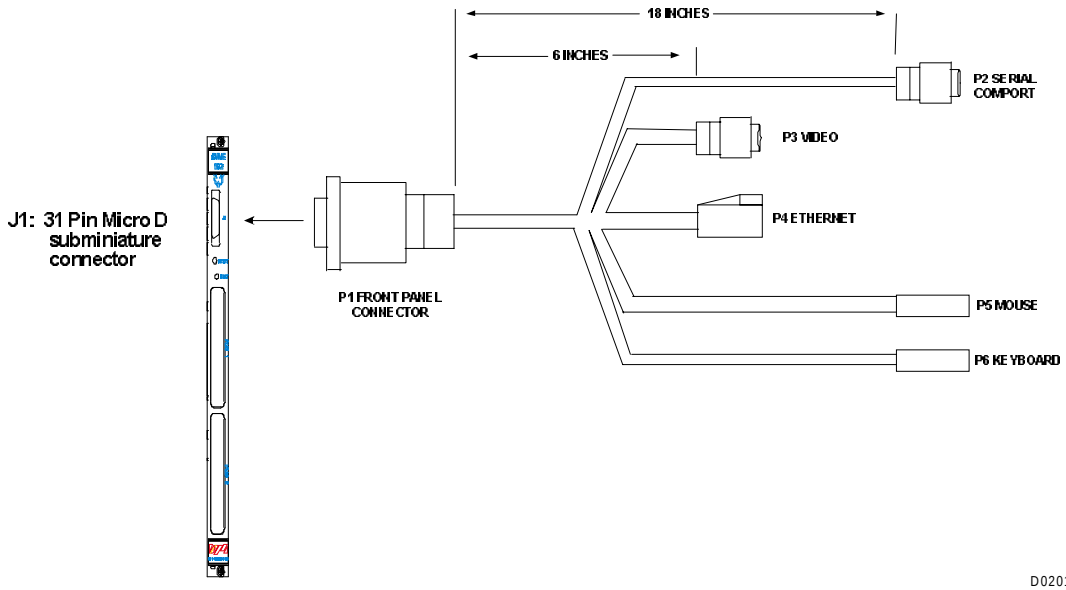


Figure 1: SVME-192 Front Panel I/O Cable

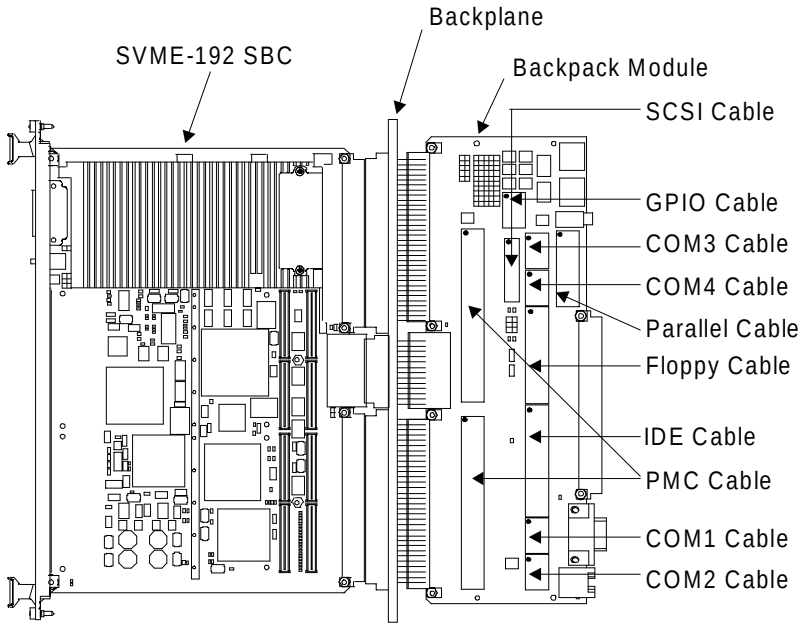


Figure 2: SVME/DMV-192 Backpack Module

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.

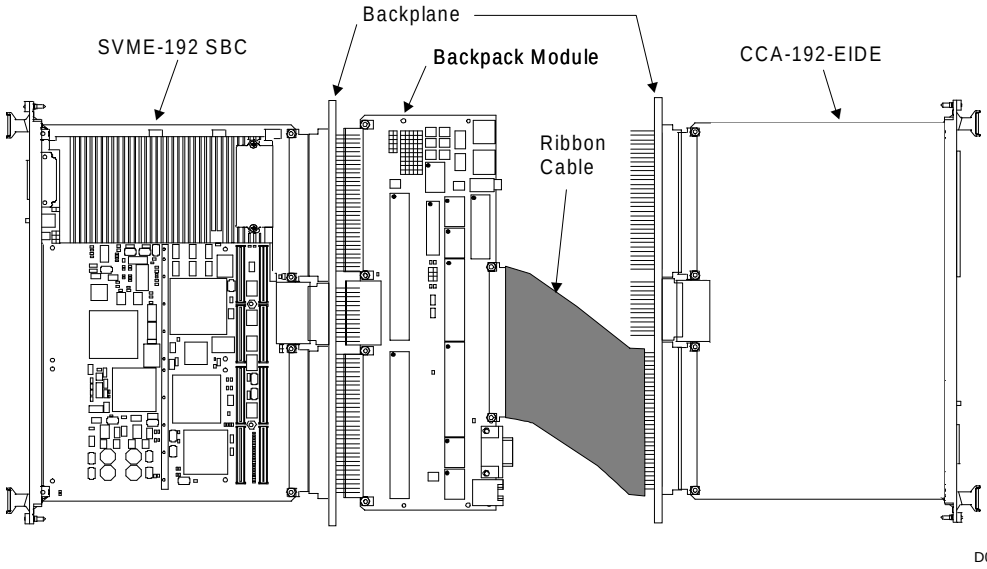


Figure 3: Cabling of the SVME/DMV-192, Backpack Module, and the CCA-192-EIDE

Table 1: Specifications

General	
Model	CCA-192-EIDE Series
Description	IDE hard disk with floppy disk drive module
Hardware Compatibility	SVME-192 Single Board Computer
Disk Drive Interface	
Floppy Disk	ST412 Interface
Hard Disk	IDE
Electrical	
Power (Spinup)	+5 Volts, 1.64 A (max.)
Power (Operating)	+5 Volts, 700 mA (max.)
Physical	
Size	6.9” x 9.187” x 4HP
Construction	Multi-Layer Printed Circuit, 4 layers
Environmental	
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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References to other documents of the exact issue, or if not shown, the issue in effect at the time of publication form a part of this specification to the extent referenced herein. In the event of a conflict, this specification will be considered a superseding requirement.

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