

ALLEN-BRADLEY DH/DH+/RIO VME INTERFACE CARD

Overview

The SST Allen-Bradley VME card connects a VMEbus computer or GE Fanuc Series 90-70 to Allen-Bradley's Data Highway, Data Highway Plus or Remote I/O (RIO) (scanner or adapter mode) network. Single and dual channel* versions of the card are available. For the dual channel* version, the channels are completely independent of each other.

Applications

The VME card can be used for data acquisition and peer-to-peer communication in:

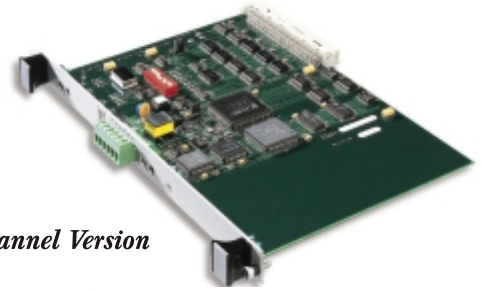
- VME based computers
- VME based programmable controllers
- VME based motion controllers

As a remote I/O scanner, the SST VME interface card can be used to control up to 32 Allen-Bradley remote I/O racks.

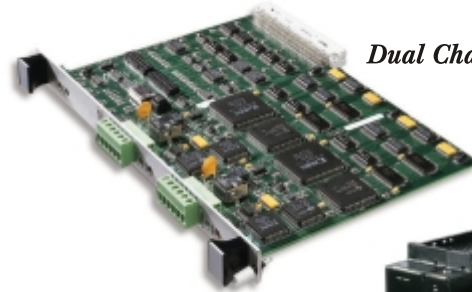
Configure the SST Allen-Bradley DH/DH+/RIO module in the GE Fanuc Series 90-70 as a foreign VME module. Sample 90-70 ladder logic is provided to assist you with the setup and configuration and processing messages.

Features

- Supports 57.6, 115.2 and 230.4 Kbaud rates on Data Highway Plus
- Supports communication as one or more slave racks using RIO
- Open card interface design eases driver development and allows portability to different VME hosts and operating systems
- Includes sample 'C' programs for Data Highway, Data Highway Plus and Remote I/O scanner applications
- Diagnostic LEDs for quick verification of card operation
- 6-pin terminal connector for quick connection to network and ease when making daisy chain connections



Single Channel Version



*Dual Channel Version**



Shown in a GE 90-70

Included with the SST DH/DH+/RIO VME Card

- 24/7 Global Technical Support



Network Interface Cards

www.mySST.com

Hardware Specifications

- Z180 CPU local processor for each channel
- 64 Kbytes of static RAM in VME standard address space, per channel
- Occupies 1 Kbyte of short address space, set by dip switches on the card
- Responds to Standard Supervisory or Non-Privileged Address Modifier codes
- Power requirements
 - single channel - 1 A at 5 V
 - dual channel - 2 A at 5 V
- Access tables on the card using VME_RD and VME_WRT commands in your 90-70 logic
- Operating temperature: 0 to 50C (32 to 122°F)
- Storage temperature: -25 to 70C (-13 to 158°F)
- Operating humidity: 5 to 95% non-condensing
- Storage humidity: 0 to 95%
- Terminal connector is Phoenix MSTB1.5/6ST-5.08

VME Specifications

- **Size:**
 - Double height (6U height), single width card using P1 connector compatible with ANSI/IEEE 1014
- **Capabilities:**
 - memory SD16, SDO8 (EO), SA24
 - registers SD08(O), SA16
- **Addressing:**
 - standard: 64 Kbytes on any 64 Kbyte boundary, per channel
 - short: 1 Kbyte on any 1 Kbyte boundary, per channel
- **Interrupts:**
 - switch selected level 1-7
 - software set 8-bit vector
 - release on acknowledge (ROAK)

* The 5136-SD-VME2 is available as “Build to Order” only. Depending on availability, please allow up to 12 weeks for delivery.

Other Reference Materials

Web Site:

- www.mysst.com/cards/ab/ab.asp

Related Allen-Bradley Products

- Network Interface Cards connect various computer bus formats to industrial networks
- Network Diagnostic and Configuration Software
- I/O Simulation Software provides control systems testing and operator training
- Network Gateways
- PLC Network Modules connect programmable controllers to industrial networks and I/O devices
- Data Servers include OPC and DDE Servers

Affiliations

- SST Allen-Bradley DH/DH+ VME interface card is referenced in Rockwell Automation’s Encompass Programs.

Ordering Information

- Order part number:
 - Single channel version - 5136-SD-VME
Includes functionality formerly included in the following obsoleted part numbers:
 - 5136-SD-VME-S - SST Allen-Bradley RIO (Scanner) VME Interface Card
 - 5136-SD-VME-R - SST Allen-Bradley RIO (Adapter) VME Interface Card
 - SST-DH-GE - SST Allen-Bradley DH/DH+ module for GE Fanuc Series 90-70
 - SST-RMAS-GE - SST Allen-Bradley RIO module for GE Fanuc Series 90-70
 - Dual channel version - 5136-SD-VME2*
Includes functionality formerly included in the following obsoleted part numbers:
 - 5136-SD-VME2-R - SST Allen-Bradley RIO (adapter) VME Two Channel Interface Card
 - SST-DH-GE2 - SST Allen-Bradley DH/DH+ Two Channel module for GE Fanuc Series 90-70

Also available from SST:

**Gateways
PLC Modules
Data Servers
Interface Cards
Embedded Solutions
I/O Simulation Software
Diagnostic and Configuration Software**

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ESDVME

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