

/// **CONTROLNET VME INTERFACE CARD** ///

Overview

The SST ControlNet interface card connects your VME bus computer to ControlNet.

Applications

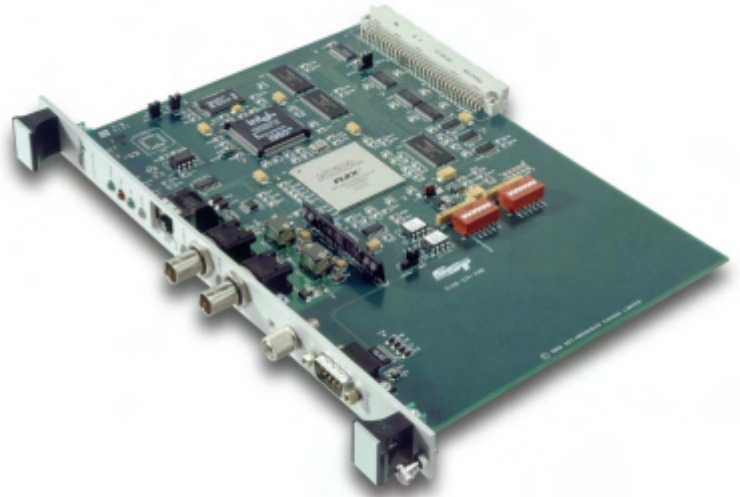
- Scan ControlNet I/O
- Exchange data with other PLCs and devices over ControlNet
- Embedded PLCs / Computers

Features

- **High performance**
 - 32-bit i960 RISC CPU
 - Simultaneous operation of 128 scheduled and 128 unscheduled connections
 - Simultaneous functionality of ControlNet messaging, scanner and adapter
- **Ease of Use**
 - Designed to work with any existing SST 5136-SD-VME DH+ software driver
 - Integrated configuration tool included for ControlNet scanner applications

Custom Driver Development

SST provides an open documented memory map interface with example C source code.



Included with SST ControlNet VME Interface Card

- ControlNet Configuration Tool
- Example code and open memory map interface for custom driver development
- 24/7 Global Technical Support



Network Interface Cards

www.mySST.com

Distribución: ER-SOFT, S.A. Email: er@er-soft.com, Tel: +34 916 408 408

Hardware Specifications

- Intel i960 32-bit RISC 30 Mhz processor
- 1 Mbyte local 32-bit RAM
- 512 Kbytes of shared 16-bit RAM
- 512 Kbytes of 16-bit Flash memory
- Serial configuration port
- LAN Controller (no ControlNet ASICs used) is implemented in a field programmable gate array (FPGA)
 - FPGA executes all protocol activity, including scanning I/O, without intervention from i960 processor
 - FPGA is software field upgradeable
- Network Interface
 - 2 BNC connectors
 - ControlNet redundancy implemented in hardware on interface card
 - Standard ControlNet LEDs for each channel
- 5136-SD-VME DH+ Emulation
 - Supports standard PCCC messaging
- Power requirements: 400 mA @ 5 V
- Operational temperature: 0 to 50C (32 to 122°F)
- Storage temperature: -25 to 70C (-13 to 158°F)

VME Specifications

- Size: double height (6U), single width card using P1 connector compatible with ANSI/IEEE 1014
- Capabilities:
 - Memory: SD16, SD08 (E0), SA24
 - Byte ordering is software selectable
 - Registers: SD08(0), SA16
- Addressing:
 - Standard: 16 Kbytes on any 16 Kbyte boundary, or 512 Kbytes on any 512 Kbyte boundary
 - Short: 32 bytes on any 32 byte boundary
- Interrupts:
 - Software selected 1-7, or none
 - Software set 8 bit status / ID register
 - Release on acknowledge (ROAK)

Other Reference Materials

Web Site

- www.mySST.com/cards/controlnet/cnet.asp

Related ControlNet Products

- Network Interface Cards connect various computer bus formats to industrial networks
- Network Diagnostic and Configuration Software
- Network Gateways
- Data Servers include OPC and DDE Servers

Certifications

- ControlNet Conformance Tested

Affiliations

- Active member of ControlNet International
- SST ControlNet VME interface card is referenced in Rockwell Automation Encompass programs

Ordering Information

- Order part number 5136-CN-VME

Also available from SST:

www.mySST.com

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

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