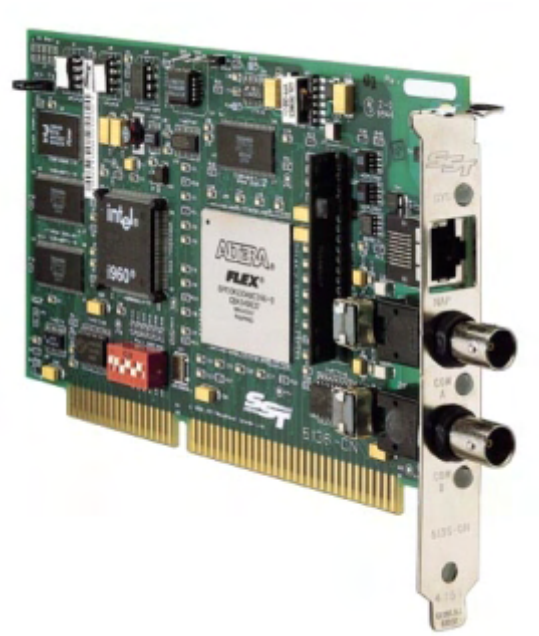
CONTROLNET ISA INTERFACE CARD

Overview

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



Applications

Many third party software programs support the SST ControlNet interface card for various applications including:

- Operator Interface/HMI/SCADA
- PC Control
- Network Configuration, Troubleshooting and Diagnostics
- PLC Programming

Features

- *High performance*
  - 32-bit i960 RISC CPU
  - Simultaneous operation of 128 scheduled and 128 unscheduled message screeners
  - Simultaneous functionality of ControlNet messaging, scanner and adapter
- *Ease of Use*
  - Designed to work with any existing SST 5136-SD DH+ software driver for Operator Interface and HMI applications
  - Works with Rockwell Software's RSLinx allowing compatibility with Rockwell's "RS" family of products
  - Integrated configuration tool included for ControlNet scanner applications

Custom Driver Development

SST provides an open documented memory map interface with example C source code and Windows 32-Bit DLLs and drivers.

Included with SST ControlNet ISA Interface Card

- **ControlNet Network Capture Tool**
- **ControlNet Configuration Tool**
- **ControlNet Network Analyzer**
- **Microsoft Windows NT drivers/DLLs**
- **Rockwell Software RSLinx Support**
- **Example code and open memory map interface for custom driver development**
- **OPC Server**
- **24/7 Global Technical Support**

ControlNet Conformance Tested

ControlNet International

SST™

www.mySST.com

Network Interface Cards

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

Hardware Specifications

- 16 bit, half-length ISA interface card
- 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
- Standard ControlNet LEDs for each channel
- 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
  - Isolated Network Access Port (NAP)
- 5136-SD DH+ Emulation
  - Supports standard PCCC messaging
  - Applications using interrupts may require minor changes
- ControlNet conformance tested
- Power requirements: 650 mA @ 5 V
- Operational temperature: 0 to 50C (32 to 122°F)
- Storage temperature: -25 to 70C (-13 to 158°F)

Other Reference Materials

Web Site

- http://www.mysst.com/cards/controlnet/cnet.asp

Data Sheets

- OPC Server for ControlNet
- Third Party Product List

Related ControlNet Products

- Network Interface Cards connect various computer bus formats to industrial networks
- Embedded Network Solutions provide OEMs and device manufacturers with connectivity to industrial networks
- Network Diagnostic and Configuration Software
- Network Gateways provide connectivity between dissimilar networks; over 45 industrial network protocols currently supported
- Data Servers include OPC and DDE Servers

Certifications

- ControlNet Conformance Tested

Affiliations

- SST is an active member of ControlNet International

Ordering Information

- Order part number 5136-CN-ISA

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