



# ALLEN-BRADLEY DH/DH+/RIO ISA INTERFACE CARD



## Overview

The SST Allen-Bradley ISA interface card connects your ISA bus computer to Allen-Bradley's Data Highway (DH), Data Highway Plus (DH+) and Remote I/O (RIO) (scanner or adapter mode) networks.

## Applications

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

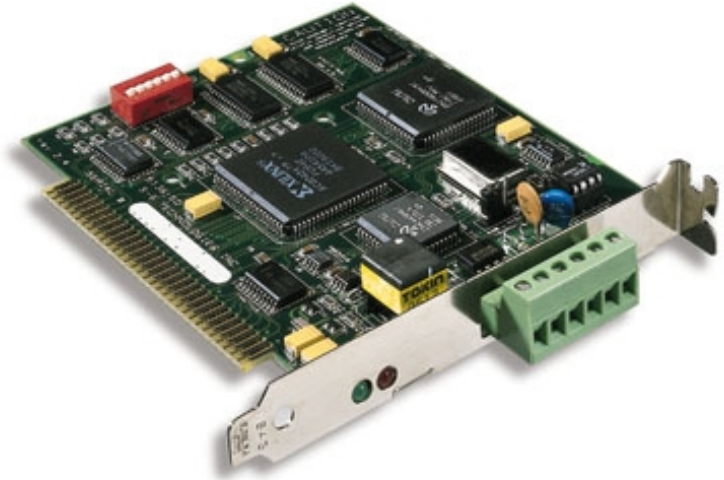
- Operator Interface / HMI
- SCADA
- Network Diagnostics for Data Highway Plus and 1771 Remote I/O
- PLC programming

## Features

- Supports 57.6, 115.2 and 230.4 Kbaud rates on DH+ and 57.6 Kbaud on DH
- Supports communication as one or more slave racks using RIO
- Software support included for emulation of Allen-Bradley's 1784-KT card
  - Compatible with Rockwell Software's RSLinx and its RS family of products
- Most third party products include support for the SST ISA Card including Rockwell Software's RSLinx communication software
- Dual Application Interface (DAI) allows either two 16 bit or 32 bit Windows programs simultaneous access to one SST card
- Simple connection to network using a 6-pin screw terminal connector

## Custom Driver Development

The ISA card interfaces with the host processor through shared memory. A fully documented host memory interface is provided. The card does not require external libraries, which simplifies custom driver development in your chosen operating system. DOS example programs with C source are included to assist you with your software development. A kernel device driver, Windows DLLs and 32-bit Windows sample applications are also included.



### ***Included with SST Allen-Bradley ISA Card***

- OPC Server for DH+
- DH+ Analyzer/Monitor
- 1771 Remote I/O Logic Analyzer/Monitor
- Software support for emulation of Allen-Bradley's 1784-KT interface card
- Dual Application Interface
- 24/7 Global Technical Support



## Hardware Specifications

- Quarter length ISA interface card
- Supports 57.6, 115.2, and 230.4 Kbaud on DH+
- Support communication as one or more racks using RIO
- Occupies 16 or 32 Kbytes of host computer memory address space; memory location and size software configurable
- Port addresses 200 to 6F8 supported on 8 byte boundaries
- Memory addresses 8000 to FC00 supported on 16 or 32 Kbyte boundaries
- Multiple ISA cards can be configured in the same computer
- Optional interrupt generation on network events
- Interrupts 2, 3, 4, 5, 6, and 7 supported
- Compatible with PLC-2\* PLC-3\*, PLC-5, PLC-5/250, and SLC 5/04
- Operational temperature: 0 to 50C (32 to 122°F)
- Storage temperature: -25 to 70C (-13 to 158°F)
- Power requirement: +5 V @ 500mA

## Other Reference Materials

### Web Site:

- [www.mySST.com/cards/ab/ab.asp](http://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

## Ordering Information

- Order part number 5136-SD-ISA  
*Includes functionality formerly included in the following obsoleted part numbers:*
  - 5136-SD-ISA-S - SST Allen-Bradley Remote I/O (Scanner) ISA Interface Card
  - 5136-SD-ISA-R - SST Allen-Bradley Remote I/O (Adapter) ISA Interface Card

\* Does not support front port current loop connection to PLC-2 or PLC-3 processors

## Also available from SST:

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

[www.mysst.com](http://www.mysst.com)

ESDISA June 2002

50 Northland Road  
Waterloo, Ontario  
Canada N2V 1N3  
Tel: 519-725-5136  
Fax: 519-725-1515

43 rue Mazagran  
76320 Caudebec-Iès-Elbeuf  
France  
Tel: +33-2-32-96-04-20  
Fax: +33-2-32-96-04-21

Landmark Tower 43F  
Minatomirai 2-2-1, Nishi-ku  
Yokohama-city 220-8143 Japan  
Tel: +81-4-5224-3560  
Fax: +81-4-5224-3561

**W Woodhead Connectivity**

applcom • Brad Harrison • mPmi • NetAlert • RJ-Lxxx • SST  
THE GLOBAL LEADER IN INDUSTRIAL COMMUNICATIONS AND CONNECTIVITY