

FCC Regulations:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own cost.

NOTE: This equipment has been tested and found to comply with CISPR Class A requirements.

Canadian Regulations:

Note: This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.

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Technical Support:

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TN Main Phone Numbers	(800) 325-2725 or (612) 941-7600
TN Technical Support Number	(800) 260-1312
TN Fax Number	(612) 941-2322
TN Bulletin Board	(612) 941-9304

Rev 9/94
P/N 7350.B

The Bridge SIC

User's Guide

Model #: E-BR-SIC
Guide #: 7350.B 9/94

About the Bridge Slide-In Card:

The bridge SIC is a device that segments network traffic by keeping a list of service nodes on SIC connector (THE WORKGROUP) side of the bridge. It re-transmits a message from a node on the workgroup side only if it is destined for a node on the AUI connector (THE BACKBONE) side of the bridge.

The bridge SIC assumes that the AUI connection is one network and the SIC connection is another network. The bridge only learns the addresses of the users on the workgroup side (256 addresses max.). When a packet is sent from one user on the workgroup side to another user on the workgroup side the packet is not forwarded to the backbone. When a packet is seen on the backbone side that is not addressed to a member of the workgroup the packet is not forwarded to the workgroup side of the bridge. This filtering function for regular traffic and broadcast packets can be disabled for either direction with the configuration switches listed on the next page.

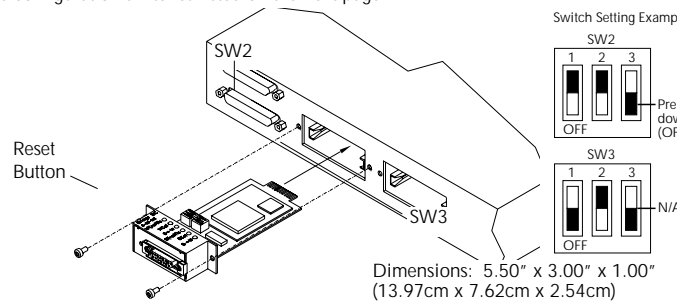


Figure 1 Crossview of the Bridge SIC

Setting Banks SW2 and SW3:

On the bridge SIC there are two banks of switches. As shown in Figure 1, the banks are labeled SW2 and SW3 on the printed circuit board. Each bank has 3 two-position switches. The function of each bank is described below.

Bank SW2

- When switch 1 is set to the OFF position, packet filtering from the workgroup to the backbone is disabled. In other words all packets from the workgroup are sent onto the backbone. When switch 1 set to the ON position, only packets that are NOT addressed to a known member of the workgroup are passed to the backbone.
- When switch 2 is set to the OFF position, packet filtering from the backbone to the workgroup is disabled. In other words, all packets from the backbone are sent to the workgroup. When switch 2 is set to the ON position, only packets addressed to known members of the workgroup are passed from the backbone to the workgroup.
- When switch 3 is set to the OFF position, all broadcast packets are passed from the backbone to the workgroup. When switch 3 is set to the ON position, broadcast packets from the backbone are NOT passed to the workgroup.

Bank SW3

- When switch 1 is set to the OFF position, all broadcast packets are passed from the workgroup on to the backbone. When in the ON position broadcast packets from the workgroup are NOT passed to the backbone.
- When switch 2 is set to the OFF position, packets will not be passed in either direction for 15 seconds after RESET while the bridge learns the source addresses on the workgroup LAN. When switch 2 is set to the ON position, packets are passed in both directions immediately after RESET, workgroup source addresses are still learned.
- Switch 3 is not used.

Reset Button:

A reset button is located on the front of the SIC. The reset button is used to reset lock-up or malfunction conditions. After the button is pressed, the bridge will automatically recycle and resume normal operation.

Installing the Bridge SIC :

Carefully install and secure the Bridge SIC into the SIC slot. This procedure should be done in an ESD safe environment, such as touching the unit frame or using a grounded strap.

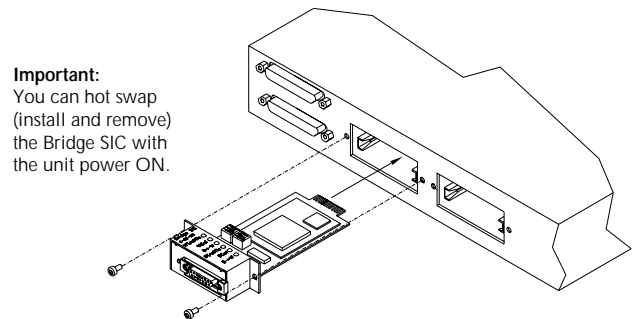


Figure 2 Installing the Bridge SIC

Monitoring the LEDs:

WTraffic	Green LED is lit when there is traffic on the workgroup.
WCol	Red LED is lit when there is a collision on the workgroup.
B o W	Green LED is lit when a packet is passed from the workgroup to the backbone.
BTraffic	Green LED is lit when there is traffic on the backbone.
BCol	Red LED is lit when there is a collision on the backbone.
B k W	Green LED is lit when a packet is passed from the backbone to the workgroup.

Bridge SIC Specifications:

- Dimensions: 5.50" x 3.00" x 1.00"
(13.97cm x 7.62cm x 2.54cm)
- Environment:
 - Temperature: 32° - 122° F (0 - 50° C)
 - Humidity: 5% - 90% non-condensing
 - Altitude: 0 - 10,000 feet (maximum)
- Limited Warranty: Five Years
- AUI Connector: DB-15 with slide lock
- Maximum Cable Distance: 165 feet (50 meters)