



I-3302 Cross Over Channel Switch for IBM Systems

Highlights

Configuration

- 1 or 2 Channels
- 1 or 2 Control Unit Strings

Parallel Channels

- IBM Block Multiplex Channel
- IBM Byte Multiplex Channel
- Siemens Channel Type 2
- OEMI Channel
- FIPS-60 Channel

Interface Features

- AS/400: 2604, 2622, 2644
- S/38: 7970

Connector Types

- 48 Pin Serpent
- 78 Pin D-Type

ESCON Channel

- Converter Integrated

Control

- Manual local / remote
- PC based
- Host based

Supported Hosts

- S/390, 3090, /370, 4300, /9370,
- AS/400, S/38, RS/6000, SNI

Form Factor

- 19" Rack mountable unit

The Intercom I-3302 Cross over Switch is an electronic channel switch for sharing channel attached printers, disk systems, tape systems, tape libraries, terminal control units, front/end processors and other devices among different physical or logical hosts. Supported are Bus/Tag and/or ESCON-channels as well as the 78 pin connector for the AS/400 interface feature IBM 2644. The I-3302 Cross-Over-Switch can reduce costs by sharing I/O subsystems among multiple hosts and increase availability by implementing redundant data links.

Resource Management

The I-3302 Cross Over Switch is a flexible resource management tool, used to route I/O Data streams between central processors and I/O units. It permits rapid data path reconfiguration, hardware migration, disaster recovery and I/O unit sharing.

IBM/370 and S/390 Compatibility

The I-3302 Cross Over Switch is IBM 3814 compatible and supports the systems IBM/370, ES/9000, /9370, 4300, and compatible systems like Amdahl, Comparex, HDS, Siemens and Unisys. Supported is interlock mode and data streaming up to 4.5 MB/s is maintained for IBM block- and byte multiplex channels, FIPS-60 channels and the SNI Channel Type 2.

ESCON and Bus/Tag Support

An ESCON fiber optic interface with integrated ESCON-to-Bus/Tag converter is available as an optional feature. Switch input ports can be equipped with any combination of Bus/Tag connectors used in the IBM

mainframe environment., 78 pin connectors used by the AS/400 and ESCON connectors.

Coexistence of different channel types allows sharing of peripherals among hosts with different channel architectures, protecting hardware investments and enabling smooth migration to ESCON.

A/400, RS/6000 and S/38

Sharing high performance tape systems and tape libraries (i.e. 3422, 3480/3490, 3494/95) among multiple midrange systems and /or mainframes can provide enhanced system availability and reduce operation costs.

Supported are the AS/400 interface features 2604, 2622 and 2644, the S/38 interface feature 7970 and the block multiplex interface feature for the RS/6000. The SCSI type interfaces (2607, 2608, 2621, 2729, 6501, 6534, etc.) for AS/400 and RS/6000 are supported by Intercoms I-2200 switch series.

System Configuration

The I-3302 Cross Over Switch is a 19" rack mountable unit for installation in an IBM 9303 system rack, any other 19" rack, or under the computer rooms raised floor.

The Cross Over Switch provides connectivity for up to two host channels and two control unit strings (2 x 2). Configurations of 2 x 1 and 1 x 2 are also available.

Switching is performed by exchanging the control unit string(s) between the input channels. Data integrity is maintained by monitoring I/O activity and switching is executed during channel idle time.

A fault tolerant power system and dedicated output for channel propagation of additional control units on the host channel side are available as optional features.

48 Pin Serpent and/or 78 Pin D-Type Connectors

The I-3302 Cross Over Switch maintains traditional dual 48 pin serpent connectors used in the IBM mainframe environment and 78 pin D-type connectors used with AS/400 and the IBM 3490-C cartridge tape systems. Both connector types can coexist in the same switch, eliminating the need for Y-cables.

Enhanced Control Systems

A manual panel provides operator control of I/O data routing and immediate identification of data path connections. An optional remote panel may be placed up to 300 ft (100 m) away.

Centralized remote control of one or multiple switches is provided by a personal computer based remote control system.

For automated operations, switches may be controlled by attached hosts, using Intercoms Host Control Software.

Specifications

Switch Configuration

1 x 2
2 x 1
2 x 2

Supported Channel Types

IBM block/byte multiplex channel
SNI channel type 2
FIPS-60 channel
OEMI channel
ESCON channel (input only)

Supported Channel Modes

Block multiplex channel
Byte multiplex channel
Selector mode
Data streaming up to 4.5 MB/s

ESCON Channel Support

ESCON FX-mode
Converter integrated

Connector Types

2 x 48 pin serpent
78 pin D-type
ESCON (input only)

Control

Manual local/remote panel
Host control
PC control

Optional Features

ESCON input channels
Redundant power
Propagated channel output for
Daisy chaining

Dimensions (Basic Module)

Width: 17.6 inches (447 mm)
Height: 4.0 HU (178 mm)
Depth: 18.3 inches (465 mm)
Weight: 17.6 lbs. (8 kg)
Fits into an IBM 9303 Rack

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