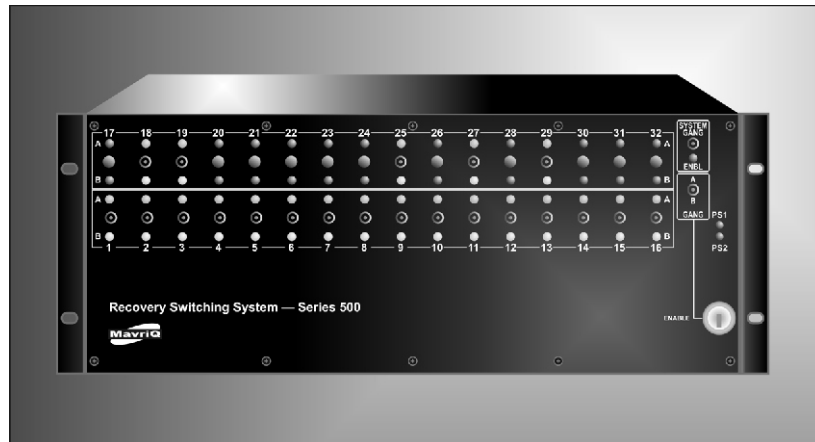


Recovery Switching System

Series 500



Recovery Switching System (RSS), Series 500 — Provides high reliability switching between primary and backup circuits. Circuits may be switched individually, in groups on a rack level, or gang switched across an entire system of RSS chassis. A remote control option is provided for gang switching via a dedicated port. Various switching interface cards are available to accommodate different circuit configurations. For backup reliability, each chassis may contain a second power supply module or may be connected to a rack mounted redundant power supply.

KEY FEATURES

Large Switching Capacity

Up to 64 RSS chassis containing up to 2048 switching circuits. Each chassis accommodates up to 16 switching interface cards and one power supply/control card. Interface cards contain one or two switching circuits.

Multiple Switching Options

Includes individual AB switching, group switching on chassis level, and gang switching on rack level or chassis level. Each chassis has a security key switch on the front panel to lock/unlock switch operations, preventing unauthorized switching. LEDs on the front-panel show the current switch position.

Compatible with Hadax 5000 Series

Switching interface cards are compatible with Hadax 5000 Series Automatic Switching System.

Modular Switching Interface Cards

Fully transparent to all communication speeds, protocols and formats. Contain latching relays to maintain the last switched position during power loss. Interfaces include RS-232/V.24, RS-449, RS-530, BNC, V.35, T1, RJ-11, RJ-45 (Cat-5) and other configurations. Coax and RJ-11/RJ-45 (Cat-5) come in dual channels per card, increasing the channel density per chassis. Mixed switching interface cards allowed in each RSS chassis.

Redundant Power Supply

Two power supply modules can support the RSS chassis for backup and reliability. A rack mounted redundant power supply can also be used, which can provide power for up to eight chassis.

Compact Size

In a 7" high chassis, up to 32 switched channels can be accomplished.

APPLICATIONS

- Disaster recovery
- Fallback for security applications
- Protection switching
- Switching to spare equipment
- Automatic control – keep alive signal



COMPONENTS

A typical Recovery Switching System contains the following components:

Rack mount chassis (1)
Switching interface cards (16)
Power supply/control card (1)
Power modules (2) or redundant power supply chassis (1) for support up to eight chassis

RACK MOUNT CHASSIS

500-RM Rack mount chassis for up to 32 channels. Contains 17 available slots—16 slots dedicated to switching interface cards, 17th slot for power supply/control card.

The front panel provides clear indication of the switched position of each of the 32 channel switches. The LEDs for each channel provide a visual indication of the present position for each switched channel. A key operated switch enables/disables all switching functions.

Power presence to each chassis is acknowledged by two LEDs indicating proper supply for single or redundant AC power configuration.

SWITCHING INTERFACE CARDS

520-1 V.35 card, 21 conductors
521-1 DB25 card, 25 conductors, F/F
521-2 DB25 card, 25 conductors, F/M
522-1 Coax card, single channel
523-1 Coax card, double channels
524-1 RJ-11 card, single channel
525-1 RJ-11 card, double channels
526-1 RJ-45 (Cat-5) card, single channel
527-1 RJ-45 (Cat-5) card, double channels
528-1 DB9 card, 9 conductors, F/F
529-1 DB15 card, 15 conductors, F/F

POWER SUPPLY/CONTROL CARDS

Each Power Supply/Control Card provides power requirements for an entire chassis. This card determines the means and type of gang switching, either chassis level or system level. An option is available for remote gang switching via a relay closure contact. Card requires the use of a power source, which can be Power Module #581-1 or #581-2; or an outside source, -48 V dc. For added reliability, use Redundant Power Supply #580-RM, which can provide power for up to eight chassis.

560-1 Control card, 12 V ac
561-1 Control card, -48 V dc
580-RM Redundant power supply (provides power for up to eight chassis)
581-1 Power module, 110 V ac/12 V ac
581-2 Power module, 220 V ac/12 V ac

SPECIFICATIONS

SIGNAL INTERFACES

Digital: RS-232/V24, V.35, RS-449, RS-530, X.21/X.25, T1/T2. Analog: RJ-11, RJ-45 (Cat-5).
Coax: BNC, Twinaxial.

PROTOCOLS

Transparent to all protocols.

RELAY SPECIFICATIONS

Relay Type: latching.
Contact material: gold-clad silver.
Initial contact resistance: 50 milliohms. Expected life (number of operations): 10,000,000.

OPERATION

Local: Manual local operation via toggle switches. Switching includes individual and group switching, rack gang switching, and system gang switching. Remote: Via external relay contact closures.

OPERATING TEMPERATURE

At 0-90% humidity, noncondensing: 0° to 50° C (32° to 122° F)

SIZE

500-RM Complies with MIL STD 189.
19" (48.26 cm) wide, Rack Mountable, 7" (17.78 cm) high, 6.5" (16.50 cm) deep.

580-RM Complies with MIL STD 189.

19" (48.26 cm) wide, Rack Mountable, 3.5" (8.89 cm) high, 6.5" (16.50 cm) deep

POWER

115 V ac 60 Hz. Optionally, 230 V ac 50 Hz.
Optionally, -48 V dc

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Series 500



COMPONENTS

RACK MOUNT CHASSIS

501-RM Rack mount chassis 8.75" (5 RU) high for up to 16 channels. Same as 500-RM, but used with SCSI and DB50 Switching Interface Cards.

SWITCHING INTERFACE CARDS

Interface cards for 501-RM chassis

- 533-5** AB card, 50 conductors
- 535-5** SCSI 2 AB card, 50 conductors
- 536-5** SCSI 2 cross card, 50 conductors, 2 slots
- 537-5** SCSI 3 AB card, 68 conductors
- 538-5** SCSI 3 cross card, 68 conductors, 2 slots
- 539-5** SCSI 1 AB Telco champ, 50 conductors, 2 slots
- 540-5** SCSI 1 Telco champ cross card
- 598-5** Blank panel, 8.75" high

SPECIFICATIONS

SIGNAL INTERFACES

Digital: RS-232/V24, V.35, RS-449, RS-530, NTDS Fast, X.21/X.25, T1/T2. Analog: RJ-11, RJ-45 (Cat-5). Coax: BNC, Twinaxial. SCSI 1, 2, 3: DB50



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