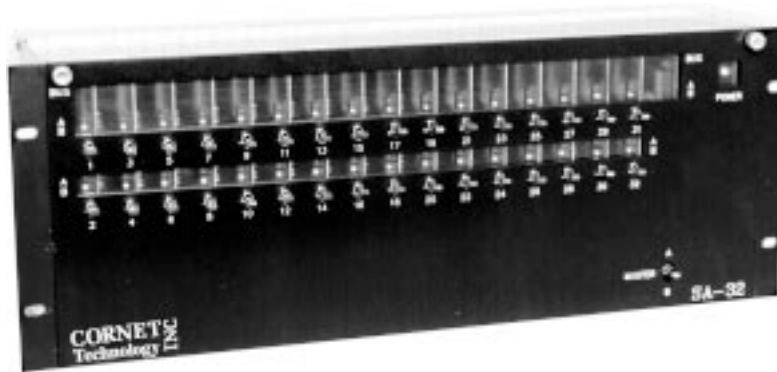


SA-32 SERIES REMOTE-CONTROLLED A/B SWITCHES



Key Features

- **Front Panel or Remote Control Switching with Master Switching**
- **Highly Reliable Design, Ideal for Remote Applications**
- **Transparent to all Protocols**
- **Available with two or four full buses.**
- **Latching Relays Remain in Position if Power Fails**
- **LEDs Indicate Switch Status**
- **Maximum Data Rate Exceeds 13 Mbps**
- **7" High Rackmount unit**
- **CorScan Control**

Network Fallback System

The SA-32 is a 32-channel remote-controlled A/B switch popularly used to provide fallback switching or automatic backup for redundant systems.

Dual ASCII control inputs allow two different processors to individually access the SA-32 for control. Should the primary processor fail, all lines can be switched to the remaining processor.

CORNET's command syntax, consisting simply of ASCII strings with error-checking, makes for easy implementation on the host processor. The SA-32 uses heartbeat commands to ensure that it is functioning properly.

The switch supports data rates up to 13 Mbps. Use of Relay technology makes the SA-32 transparent to signal type, data protocol, or data rate.

Compact Rackmount Package

Available with either two eight-wire or four four-wire buses, the SA-32 is sized to fit in a standard 7" high, 19-inch equipment rack. This

provides a compact footprint and a low per/port cost.

Switch Design

Status LEDs on each channel card and on the controller card indicate which chassis and which card in the chassis is using the bus. These relay-based buses provide access to the actual interface voltage levels.

The unit's front is designed with toggle switches and red/green LEDs that indicate switch position. A master switch sets all channels to the A or B position.

The rear of the unit features the power connector, interface connectors for each data path, and three RJ-45 connectors for the remote control and the chain interface.

Remote cluster configurations are achieved by daisy chaining up to 16 units on a single control chain. System configurations larger than 512 ports (16 chassis) require an Interface Control Processor (ICP) device. The ICP controls over 1024 ports.

The SA-32 is designed to hold up to 16 switch cards mounted with RJ-45 connectors. These cards provide A/B switching for two channels each

SPECIFICATIONS

with either four or eight circuits per channel. One pole of the relay circuitry is used for a status indication. A bus plane carries control information from the control card to each individual switch card. The seventeenth position provides the master switch module and the control logic plus the interfaced point for the bus. The eighteenth position is the power supply.

Reliability

Dual ASCII control ports provide redundant control. Two PC's can be used to control the SA-32 switching system. One would be a primary control and the other a backup. Using the optional CorScan control, this dual control will automatically backup the system data bases of each PC so both PC's will be aware of the current switch configuration.

The SA-32 extends its reliability down to the power supply level. A dual-redundant, single-card power supply takes a single AC input and drives two independent DC power supply modules through separate fuses. Failure of either supply allows the other to take over. Failures are indicated by a red LED on the power supply card and an alarm message is sent to CorScan 500 when the chassis is polled.

Terminal or CorScan Control

Control is provided locally via toggle switches or remotely through a PC or a terminal using the CORNET CorScan-500 management software. CorScan's database function stores line names and control is performed through the switching function. Lines control is by line names, making system management both logical and easy.

Buses:

Two 8-wire or four 4-wire buses featuring monitor, break DTE, or break DCE

Switch Control

Manual Control: Toggle Switch, spring-loaded, center off
ASCII Control: Input/Output Port: Serial DTE async
Data Rates: 300 bps to 9.6K bps, automatic selection
Character Format: Async, 10 bits
Parity: Odd, even, mark, or space
Message Format: Training character, box type, box number, channel number, function, bus number

Electrical

Circuits Switches per channel: 4 or 8
Data Connector types: RJ-45 throughout
Control Connectors: RJ-45
Power Requirements: 100-230 VAC, 47-63 Hz., 25 Watts Standard, universal, dual-redundant with failure indication. Dual fuses protect each DC module.

Physical

Dimensions: 7"H x 19"W x 6"D
Weight: 15 lbs.



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In the interest of continuous improvement, CORNET Technology, Inc. reserves the right to change specifications without prior notice.