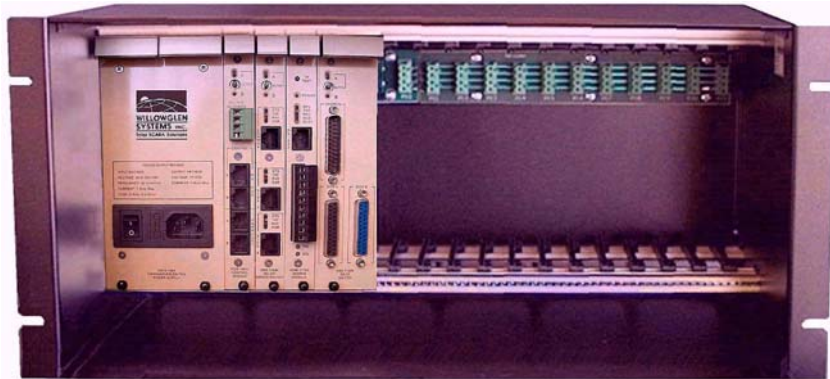


Changeover Switch



Willowglen Systems Inc. offers a modular electronic switching device that allows automatic and/or manual A/B switching of communication lines and/or peripherals. The Changeover Switch is normally used by two redundant host computers to share peripheral devices. If one host computer fails, the Changeover Switch can automatically connect all of the peripheral devices to the other host computer. The Changeover Switch can also be used to connect redundant peripheral devices or communication lines to a modem or serial communication port.

The Changeover Switch accepts Automatic (remote) control from the host computers or Manual (local) control using a self-centering switch on the front panel of the Control Module. Remote control signals can switch the peripheral devices to the A side or B side. The user can use the self-centering switch to switch the peripheral devices to the A side or B side. After releasing the self-centering switch, the Control Module accepts the remote switching control signals.

A switch module can also be independently put into Manual mode and forced into the A position or B position. When in Manual mode, the switch ignores the instructions from the Control Module.

Colour LEDs are used to indicate the modes of operation and which side the channel has been switched to.

Changeover Switch Baseline System Components

Control Module

Controls the A/B switching for all of the modules installed in the same Changeover Switch chassis. The module accepts host computer control commands and returns the status using the Side A and Side B control ports. The module can have RS-232 ports and Ethernet ports.

The module can be configured as a slave Control Module in installations that link multiple Changeover Switches.

Backplane

The bus that distributes +12 VDC and +5VDC power and switch control signals to the Changeover Switch modules. Accepts one power supply module and up to 17 control and switch modules.

Power Supply Module

Provides power to the Changeover Switch modules mounted in the same chassis. Installed in the leftmost position of the backplane.

Changeover Switch Standard Switch Modules

RS-232 Bridge Switch Module

This module manages the automatic and manual switching of two RS-232 serial ports.

The module accepts switch control from the Control Module and connects the Common serial port to the Side A serial port or Side B serial port. A three position toggle switch allows manual override of the module.

The module can be configured as a serial communication bridge, connecting the Side A serial port and Side B serial port to the Common serial port simultaneously. The bridge configuration is used when one side is communicating with the Common serial port at a time.

Modular Jack Relay Switch Module

This module manages automatic and manual switching of two modular jacks. The module accepts switch control from the Control Module and connects the Common port to the Side A port or Side B port. A three position toggle switch allows manual override of the module.

DE-9 Relay Switch Module

This module manages automatic and manual switching of two DE-9 ports. The module accepts switch control from the Control Module and connects the Common port to the Side A port or

Side B port. A three position toggle switch allows manual override of the module.

The DE-9 Common port can be either DE-9P (pins) or DE-9S (sockets) with the opposite gender on the Side A port and Side B port.

DB-25 Relay Switch Module

This module manages automatic and manual switching of two DB-25 ports. The module accepts switch control from the Control Module and connects the Common port to the Side A port or Side B port. A three position toggle switch allows manual override of the module.

The DB-25 Common port can be either DB-25P (pins) or DB-25S (sockets) with the opposite gender on the Side A port and Side B port.

Modem Module

This module has a 1200 baud FSK modem that uses the Bell 202 or ITU V.23 forward channel frequencies for both send and receive. The modem is intended for 2-wire or 4-wire private communication links or radio communication links. The module has six LEDs that indicate the modem status. The modem operates in full duplex or half duplex mode at data rates up to 1200 baud for both send and receive.

Changeover Switch General Specifications

Power Input Specifications

- **Input Voltage:** 90-260 VAC, 47-440Hz
- **Output Power:** 22.5 Watts Maximum
- **Fuse:** 2 A for 115 VAC operation

Weight

- **Full Chassis:** 5.5 kg (12 lbs.)

Dimensions

- **Rack:** 222 mm x 483 mm x 152 mm (8.75 in. x 19 in. x 6 in.)

Environmental

- **Operating Temperature:** 0 to +50°C (32 to 122°F)
- **Relative Humidity:** 0% to 95% (not condensing)

For additional information on specific configurations and pricing, please contact Willowglen Systems Inc.

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