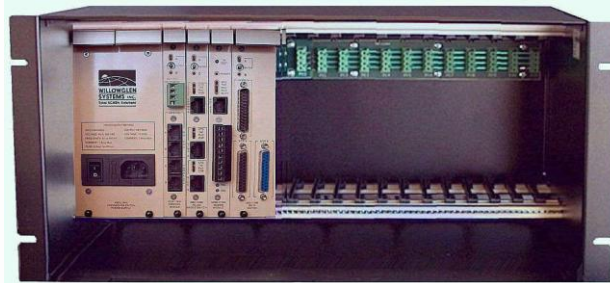


## PRODUCT DESCRIPTION

# CHANGEOVER SWITCH



### General Description

The Changeover Switch is a modular electronic switching device that allows automatic and/or manual A/B switching of communication lines and/or peripherals. The 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 peripherals 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. Remote control signals can switch the peripheral devices to the A side or B side. The user can use the self-centering switch on the front panel of the Control Module to switch the peripheral devices to the A side or B side. After releasing the self-centering switch, the Control Module accepts the remote control signals.

The user can use the self-centering switch on the front panel of a Switch Module to switch the peripheral device to the A side or B side. When in Manual mode, the Switch Module ignores instructions from the Control Module.

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

### Baseline System Components

#### XCM-11691/XCM-11785 Changeover Switch Control Module

Controls A/B switching for all other modules installed in the same Changeover Switch rack. The modules accept computer control commands and return the Changeover Switch status using the A side and B side control ports. The XCM-11691 has RS-232 ports and logic level control ports. The XCM-11785 has RS-232 ports and Ethernet control ports.

The control modules can be configured as a slave control modules in installations that link multiple Changeover Switches.

#### XBP-11696 Changeover Switch Backplane

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

#### XSPS-1445 Power Supply Module

Provides power to the Changeover Switch modules mounted in the same Changeover Switch rack. Installed in the left most position of the Changeover Switch backplane.

# Standard Switch Modules

## **XRS-11692 RS-232 Bridge Switch Module**

Manages the automatic and manual A/B switching of the RS-232 serial ports. Switched or bridged modes of operation are available.

The module accepts switch control from the Changeover Switch backplane and connects the Common serial port to the A side serial port or B side serial port. A 3 position toggle switch allows manual over-ride of the bridge switch from the front panel.

The module can be configured as a serial communications bridge, connecting both the A side and B side to the Common port simultaneously. The bridge configuration is used when only one side is talking to the Common port at a time.

## **XMS-11693 Modular Jack Relay Switch Module**

A relay module (10 pole, 2 position) that manages automatic and manual switching of two modular jack I/O channels. The module accepts switch control from the Changeover Switch controller and connects the Common I/O port to the A side I/O port or B side I/O port. A 3 position toggle switch allows manual over-ride of the relays from the front panel.

## **XBS-11694 DE-9 Relay Switch Module**

A relay switch module (9 pole, 2 position) that manages automatic and manual switching of two DE-9 connected I/O channels. The module accepts switch control from the Changeover Switch controller and connects the Common port to the A Side port or B Side port. A three position toggle switch allows manual over-ride of the relays from the front panel.

Part configuration options allow DE-9P (pins) or DE-9S (sockets) connector on the Common port, with the opposite gender connections on the A port and B port.

## **XBS-11695 Switch Module**

A relay switch module (25 pole, 2 position) that manages automatic and manual switching of two DB-25 connected I/O channels. The module accepts switch control from the Changeover Switch controller and connects the Common port to the A Side port or B Side port. A 3 position toggle switch allows manual over-ride of the relays from the front panel.

Part configuration options allow DB-25P (pins) or DB-25S (sockets) connector on the Common port, with the opposite gender connections on the A port B port.

## **MDM-11700 Module**

The module is a 1200 baud FSK modem that uses the Bell 202 or ITU V.23 forward channel frequencies for data transmission and receiving. The modem is used for 2-wire or 4-wire private line communication links or for radio communication links.

The module includes an RS-232C interface, a microprocessor for the FSK modem functions, 2-wire or 4-wire phone line interface, isolating radio interface and a squelch condition detector. Six on board LEDs 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 Specifications

### **Electrical**

**Input Voltage:** 90 to 260 VAC, 47 to 440 Hz

**Output Power:** 22.5 W maximum

**Fusing:** 2 A for 115 VAC operation

### **Environmental**

**Operating Temperature:**

0°C to +50°C (32°F to +122°F)

**Operating Humidity:**

0 to 95% (non-condensing)

### **Mechanical**

**Rack Dimensions:**

222 mm by 483 mm by 152 mm  
(8.75 in by 19.0 in by 6.0 in)

**Full Rack Weight:**

5.5 kg (12 lb)

Specifications subject to change.



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