

Mix and match functions, interfaces, and connectors, in each Rackmount Chassis to create a custom managed network.

Technically Speaking

Manage the Pro Switching System via:

- HP OpenView Windows.
- SNMP.
- An async terminal.
- ASCII character strings.
- A watchdog timer.

OpenView

HP OpenView Windows allows you to control up to 256 sites, each of which can contain up to 256 rackmounts.

With OpenView, you can manage devices from different vendors. Simply draw a map of the network, using a supplied set of icons. A color code indicates the status of each device in the network.

The Rackmount Switch software provides realistic views of the front and rear of the rack and line cards, indicating the current state of all switches, LEDs, and connectors.

If you click on the display of a switch, the Pro Switching System software invokes the equivalent hardware operation at the rack.

The software also displays LEDs in real-time.

SNMP Agent

The Pro Switching System includes an SNMP agent. With the proprietary MIB, which can be compiled using any SNMP platform, multiple users can access the Pro Switching System racks throughout the network, and perform a variety of functions. These functions include switching, getting status, setting alarms, testing lines using the monitoring buses and more.

Terminal

An async terminal provides the most economical management option. It allows you to control up to 64 racks.

The terminal uses a system of ergonomically designed menus, with extensive online help. The status display screens are updated in real-time. Also, each screen includes summary information about the system.

ASCII Control (Character Strings)

ASCII control allows the operator to use ASCII character strings to control the racks. The racks receive the ASCII strings via a serial interface. You can use the ASCII strings to write your own controlling software. ASCII control provides a very flexible option, allowing you to customize the control to your needs.

Watchdog Timer

The Watchdog Timer automatically monitors two mainframe or mini-computer systems and connects users to one of the systems. If the system fails, the Watchdog Timer switches all users to the other system. The Watchdog Timer does not require a controlling terminal or PC.

Alarms

You can define alarm conditions for the primary and redundant channels of each line in the system. Specify:

- A signal (TD, RD, etc.)
- A condition (MARK, SPACE, etc.)
- A duration (in seconds)

When the signal remains in the specified condition for the specified duration, the system generates an alarm.

Switching and Backup

You can switch an individual line, all the lines in a rack, or a group of lines. A group of lines can consist of lines from various racks at various sites.

Switching options are as follows:

- AB
- ABCD
- Crossover
- Substitution (2:1, 4:1, or other)
- Modem sparing

To manually switch a line, you can use switches on the front of the line card. A key switch on the rack enables or disables the manual switching of lines.

To remotely switch a line, you can use the management. You can perform default, scheduled, and alarm-triggered switching.

Switching uses latching relays. If the power fails, the relays remain in the last switched position and continue to pass data.

Alarm-Triggered Switching

Alarm-triggered switching allows you to set up the Pro Switching System so that it automatically performs a specified switching operation when a specified alarm is generated. Simply define the alarm condition, the restore/stay time and the switching operation. The switching operation can be for a single line or for a group of lines.

Monitoring and Testing

You can use patch cavities on the front of the line card to manually monitor or test a line. A line card can have none, two, three, or four patch cavities.

Cards with switching circuits can have none, two, or four patch cavities. Cards with two patch cavities allow you to monitor the A and B lines (that is, the primary channel and the redundant channel).

Cards with four patch cavities allow you to monitor the A and B lines as well as test the line toward the DTE or the DCE.

You can use the management to remotely monitor or test a line.

Monitoring and testing options are as follows:

- Bridge to a line
- Break to DTE
- Break to DCE

The monitoring buses use nonlatching relays, which disengage if the power fails.



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Specifications

Chassis:

Interface — Digital: RS-232, RS-530, V.35; Analog: RJ-11, RJ-45

Power — From the power supply module (SM750A): 115/230 VAC, auto-selectable; 48-VDC power supply available on request

Size — 8.75"H x 19"W x 13.25"D

Weight — 45 lb. (20.4 kg) fully populated

Cards:

Connectors —

Rear interface switch cards:
 SM720C: (3) DB25 female;
 SM721C: (3) M/34 female;
 SM722C: (3) DB15 female;
 SM723C: (3) RJ-11;
 SM724C: (3) RJ-45

Indicators — SM705C-SM707C:
 (8) LEDs for transition activity

Power — From the Rack Chassis

Ordering Information

ITEM	CODE
Pro Switching System	
Rackmount Chassis	SM700A
Power Supply Module	SM750A
Application Software	SM701A
CPU Cards	
CPU card—SNMP to 10BASE-T	SM701C
CPU card—VT-100	SM702C
Front Cards	
RS-232 Switch Card	SM705C
V.35 Switch Card	SM706C
RS-530 Switch Card	SM707C
DB15 Switch Card	SM708C
RJ-11 Switch Card	SM709C
RJ-45 Switch Card	SM710C
Rear Cards	
DB25 Rear Switch Card	SM720C
V.35 Rear Switch Card	SM721C
DB15 Rear Switch Card	SM722C
RJ-11 Rear Switch Card	SM723C
RJ-45 Rear Switch Card	SM724C
Blank Covers	
for unused rear slot	SM730
for unused front slot	SM740



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