CM9760-HS Hot Switch Interface Unit

HOT STANDBY SWITCH FOR CM9700 SERIES MATRIX

Product Features

- Continuous Monitoring of Active and Standby CPUs
- Automatic or Manual Switching to Standby CPU in the Event of a Failure
- Diagnostic LEDs Show CPU Status
- Audible Alert in Case of CPU Failure
- Manual Control of Diagnostic Monitor and Keyboard Allows Servicing/Programming of Either CPU Without Interrupting System Operation
- Automatically Routes Data Lines for Keyboards, Bays, and Accessories to Standby CPU
- Backward Compatible With Older Matrix Systems
- Fits a 19-Inch EIA-Standard Rack

The **CM9760-HS** hot switch interface unit is a computer changeover switch that monitors the status of an active CC1 in a 9700 Series system. If the active CC1 fails to operate, the hot switch receives an alarm and transfers control to a standby CC1. All devices controlled by the active CC1 are then controlled by the standby CC1. Also, all common computer input/output devices (keyboard, monitor, printer and two serial ports) are switched from the active CC1 to the standby CC1; this can be done when there is a failure or by command of the system user.
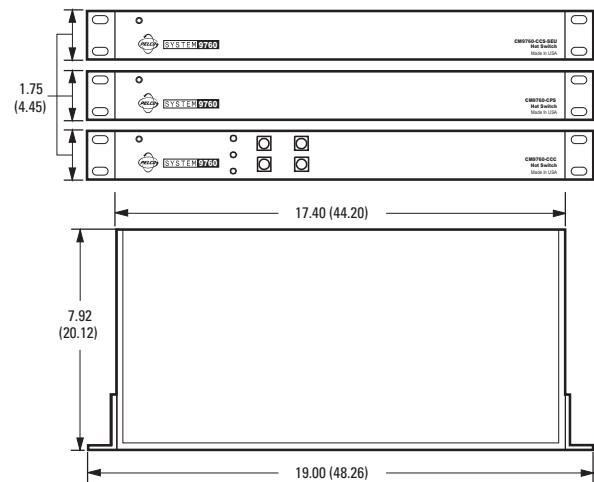
The hot switch is made up of three subunits: the CCC (computer changeover control), the CPS (computer peripheral switch), and the SEU (serial expansion unit).

The CCC is the main component of the hot switch. The data connections between the interfaced CC1s and the hot switch are located on the rear of this unit.

The CPS switches computer peripherals so that two CC1s may use only one monitor, printer, keyboard, and standard serial port.

The SEU switches the data communications ports. Each SEU can switch 16 standard RS-422/RS-485 ports.

The **CM9760-HS** allows for easy expansion to 128 ports.

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

MODELS

CM9760-HS	Hot switch interface unit, consisting of one CM9760-CCC, one CM9760-CPS, and one CM9760-SEU
CM9760-SEU	Serial expansion unit; supports switching of an additional 16 data ports.

ELECTRICAL

CM9760-CCC

Input Voltage	120 to 240 VAC, 50/60 Hz (autoranging, European-standard plug supplied)
Power	30 VA
Fusing	2 A, fast acting
Power Indicator	LED, green

CM9760-CPS

Power Indicator	LED, green

CM9760-SEU

Power Indicator	LED, green

PORTS

CM9760-CCC

Input (data)	Two RS-422, RJ-45 connectors (female)
	DIP switch selectable baud rate and communication type
	Two RS-232, DB9 connectors (female)
	DIP switch selectable baud rate and communication type
Common Bus	Two (one IN, one OUT), DB37 connectors (female)
Logging Printer	One DB25 (female)

CM9760-CPS

Common Bus	Two (one IN, one OUT), DB37 connectors (female)
Input (Side A)	One mini-DIN, 5-pin connector One DB9, COM 2 connector (male) One DB15, VGA connector (female) One DB25 printer connector (female)
Input (Side B)	Same configuration as Side A, input
Output	Same configuration as Side A, input

CM9760-SEU

Common Bus	Two (one IN, one OUT), DB37 connectors (female)
Input (Side A)	Sixteen, RJ-45 (female) connectors
Input (Side B)	Same as Side A configuration
Output	Same as Side A configuration

MECHANICAL

Connectors

CM9760-CCC

Power	3-wire, 18 AWG
RJ-45	Two (female)
DB9	Two (female)
DB25	Two (one male, capped, not used; and one female)
DB37	Two (female)

CM9760-CPS

Mini-DIN, 5-pins	Three (female)
DB9	Three (male)
DB15	Three (female)
DB25	Six (three male and three female)
DB37	Two (female)

CM9760-SEU

RJ-45	48 (female)
DB37	Two (female)

GENERAL

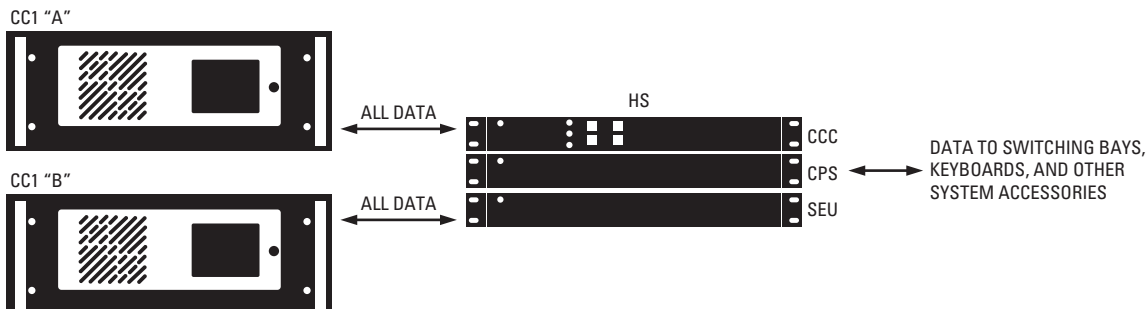|	
Operating Temperature	32° to 122°F (0° to 50°C)
Construction	Aluminum
Finish	Black polyester powder coat
Mounting	Fits 19-inch (48.2 cm) EIA-standard rack (1 RU)

Dimensions (all units)

Base Only	1.75" H x 17.40" W x 7.92" D (4.45 x 44.20 x 20.12 cm)
With Rack Ears	1.75" H x 19.00" W x 7.92" D (4.45 x 48.26 x 20.12 cm)

Unit Weight

CM9760-CCC	5.8 lb (2.64 kg)
CM9760-CPS	5.3 lb (2.41 kg)
CM9760-SEU	5.2 lb (2.36 kg)

Shipping Weight

CM9760-CCC	6 lb (2.73 kg)
CM9760-CPS	6 lb (2.73 kg)
CM9760-SEU	7 lb (3.18 kg)

CERTIFICATIONS/RATINGS

- CE, Class B
- FCC, Class B
- UL/cUL Listed (CM9760-CCC)
- C-Tick

OPTIONAL ACCESSORIES

CM9700-CC1	Backup CPU for CM9700 Series systems

CC1 "A"

CC1 "B"

ALL DATA

ALL DATA

HS

CCC

CPS

SEU

DATA TO SWITCHING BAYS, KEYBOARDS, AND OTHER SYSTEM ACCESSORIES