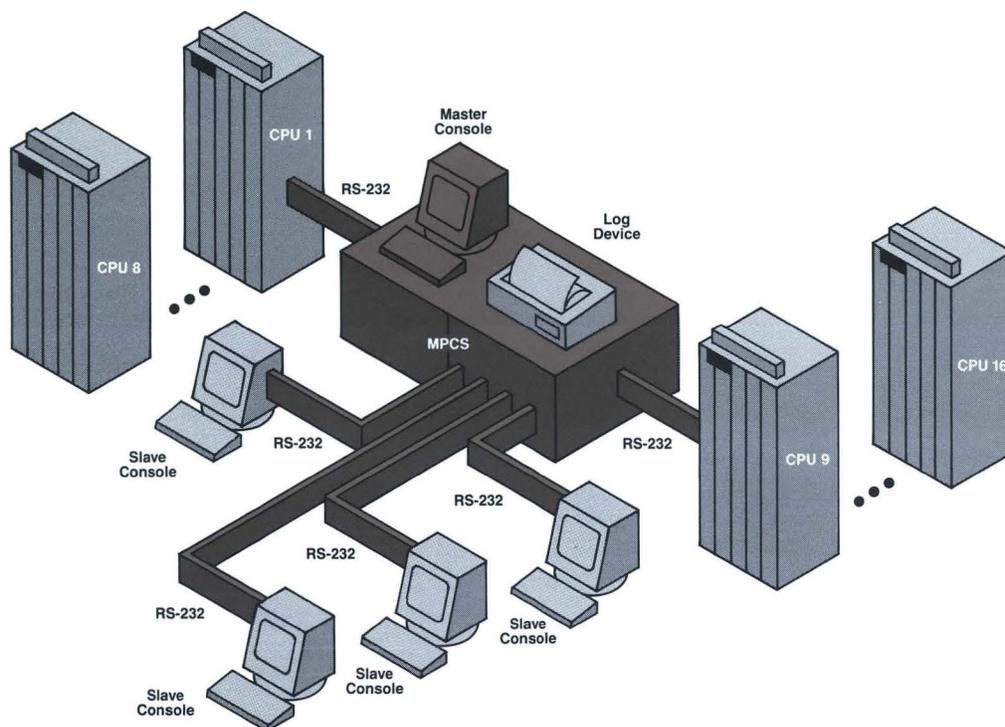


MPCS

Multiple Processor Control Station

Customer
Configuration



Product Description

The Perkin-Elmer Multiple Processor Control Station (MPCS) allows a single master console and up to four slave consoles to replace up to 16 separate P-E processor consoles. The MPCS decreases floor space requirements while increasing operator efficiency.

The MPCS board is a microprocessor controlled device which resides in its own enclosure on a single standard size (15" x 15") card, and is completely independent of the processors it controls.

The operator can give commands to the MPCS to simplify control of a multiple processor situation. Each processor is identified either by a user-defined, four-character mnemonic or by default numerics.

The MPCS product resides in a modified P-E double bay pedestal with its own power supply and cooling. A control panel, mounted inside the left pedestal, contains a system reset switch and power indicator light. Also present on the control panel is a fault indicator light to inform the user that the MPCS has either detected a hard error during the basic confidence test or sustained an unrecoverable error during operation.

The MPCS connects directly to the asynchronous RS-232 System Console Port on any Series 3200 Processor. Assorted lengths of external cables are available to connect the MPCS to the System Console Port.

Features

- Replaces up to 16 processor consoles with one console device.
- Accommodates one master console with the ability to add up to four additional slave console devices.
- Provides the ability to broadcast commands to all processors.
- Provides the ability to select/deselect a processor for message routing.
- Provides the ability to bootload, initialize, halt/run, or single step any processor which contains a remote console system.
- For each CPU, allows the definition of a four-character processor mnemonic which is stored in volatile RAM.
- Is completely self-contained with no processor dependency.
- Provides self-test capability with basic confidence test on power-up.
- Allows all console activity to be logged to an optional printer.
- Is compatible with all Series 3200 processors.

Product Characteristics

The MPCS uses two Motorola 68000 microprocessors connected through shared memory. The console Microprocessor Unit (MPU) provides control of five RS-232 consoles and one RS-232 log device. The Port MPU controls 16 RS-232 console ports.

In addition to a basic confidence test which is run at power-up, the MPCS can perform a self-test upon command. The following list briefly summarizes the commands that can be directed to the MPCS to facilitate efficient multiple processor control by the operator.

Command	Function
■ #XX/CMD	Send command CMD to processor XX.
■ #ASSIGN XX,MN	Assign mnemonic MN to processor XX.
■ #BOOT XX, DEV	Bootload processor XX using device DEV.
■ #BREAK XX	Send break signal to processor XX.
■ #BROADCAST CMD	Send command CMD to all processors.

■ #CLEAR XX	Clear mnemonics for processor XX.
■ #CONNECT	Connect processor to user terminal.
■ #CONTINUE XX	Put processor XX in continuous mode.
■ #DISCONNECT	Disconnect console from connected processor.
■ #HALT XX	HALT processor XX.
■ #RUN XX	RUN processor XX.
■ #INITIALIZE XX	Initialize processor XX.
■ #LIST	List all valid mnemonics.
■ #LOG ON	Log all transactions on the optional printer.
■ #LOG OFF	Disable the MPCS printer.
■ #SELECT XX	Send all undirected commands to processor XX.
■ #SINGLE XX	Put processor XX in single step mode.
■ #TEST	Self-test MPCS.

Safety Standards

The Multiple Processor Control Station has been UL, CSA, and FCC approved; and is designed for VDE approval. This equipment complies with

requirements in part 15 of FCC rules for class A computing devices.

Specifications Power

Current: 2 amperes
@ V: 110 volts (220 watts)
Current: 1 ampere
@ V: 220 volts (220 watts)
Voltage: 115 VAC, 60 Hz or 220 VAC, 50 Hz
Line Cord Plug:
From Pedestal Distribution Panel, 115 VAC, 30A
Hubbell # 2611

Note: Four receptacles provided at the Distribution Panel are Slatter #3232BR.
From Pedestal Distribution Panel, 220 VAC, 15A User Supplied
Note: Four receptacles provided at the Distribution Panel are Hubbell # 5662.

Environmental

Operating Temperature: 0° to 50°C
(32° to 122°F)
Storage Temperature: -40° to 85°C
(-6.2° to 185°F)

Operating Humidity: 5 to 90% humidity, (non-condensing)

Dimensions:

Height: 711 mm (28 in.)
Width: 1067 mm (42 in.)

Depth: 660 mm (26 in.)
Weight: 63.56 kg (140 lb.)

Product Numbers

K59-240 MPCS (110 VAC, 60 Hz) packaged in a double bay pedestal with its own power supply

K59-241 MPCS (220 VAC, 50 Hz) packaged in a double bay pedestal with its own power supply

Related Products

K59-250 MPCS external cable, 25'
K59-251 MPCS external cable, 50'
K59-252 MPCS external cable, 75'

K59-253 MPCS external cable, 100'
K59-254 MPCS external cable, 150'
K59-260 Remote Consolette System (RCS)

Related Documentation

91-368 MPCS Instruction Manual
91-425 Remote Consolette System Instruction Manual

The information contained herein is intended to be a general description and is subject to change with product enhancement.

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