



AD1024HS

MEGAPOWER™ 1024 CPU
STANDBY HOT SWITCH



FEATURES

- AD1024 Matrix System accessory for applications requiring CPU redundancy
- Automatic transfer of control in the unlikely event of a CPU malfunction
- Continuously monitors the High Speed Data Lines of two separate CPUs
- Seamless operation without interruption
- Front panel controls and status display
- Alarm outputs
- Audible, visual and relay output alert of CPU malfunction
- Visual indication of AD1024 RS-232 port activity

The AD1024HS Standby Hot Switch is for use with dual AD1024 CPUs. It continuously monitors each CPU's High Speed Data Line for normal operation and detects any malfunctions in either CPU. When the AD1024 Hot Switch detects a malfunction, it automatically selects the alternate CPU to provide uninterrupted system operation.

Front panel switches provide automatic or manual selection of either CPU for system control and on/off control of the audible alert alarm.

Twenty-seven LED indicators are located on the front panel. These LEDs indicate the status of the CPUs, the RS-232 ports and the hot switch.

In addition to visual indication, the AD1024HS provides an audible alarm signal to alert the operator of a malfunction in the CPUs. Form C relay outputs are also available for operation of external alarm devices. The unit has rack ears for standard 19-inch EIA rack mounting.

SPECIFICATIONS

Model Numbers

AD1024HS120 VAC, 50/60 Hz
 AD1024HSX230 VAC, 50/60 Hz

Operational

Indicator LEDs20 LEDs indicate port status and activity.
 Seven additional LEDs indicate CPU status
 (ready, fault, select)

Controls

CPU Select SwitchThree-position switch enables manual or
 automatic selection of CPU1 or CPU2
 Alert SwitchTurns the audible alarm on or off

Connectors

AD High Speed Data LineSix BNC connectors serve to interconnect
 High Speed Data Lines from each CPU to
 video switching bays
 RS-232 PortsThree banks of 10 RJ-45 connectors serve
 to interconnect the 10 RS-232 ports of
 each CPU to the shared peripheral devices
 Alarm Connector12-pin connector facilitates access to three
 Form C relay outputs: CPU1, CPU2, CPU1
 or CPU2 malfunction

Electrical

Supply Voltage
 AD1024HS120 VAC, 50/60 Hz
 AD1024HSX230 VAC, 50/60 Hz
 Power Consumption8.0 watts (nominal)

Mechanical

Dimensions (H x W x D)89 x 483 x 318 mm
 (3.5 x 19 x 12.5 in)
 Unit Weight6.5 kg (14.4 lbs)
 Shipping Weight8.6 kg (19 lbs)
 ColorBlack
 Mounting19-inch EIA rack mount

Environmental

Operating Temperature0° to 40° C (32° to 104° F)
 Humidity5 to 90% RH (non-condensing)
 Storage Temperature-40° to 70° C (-40° to 155° F)

Regulatory

EmissionsFCC, Part 15, Subpart B, Class A

Basic System Diagram

