V2924AHS Series

Matrix Hot Switch for Dual CPU Operation

- **Automatic or manual selection of active or standby CPU**
- **Continuous detection of dual CPU status**
- **Automatic switchover to standby CPU in the event of active CPU failure**
- **Audible alarm to indicate malfunction in either CPU**
- **Front-panel switch to enable/disable audible alarm function**
- **26 Diagnostic LEDs to indicate each operating status**
- **3 Form-C relay outputs to control auxiliary alarm devices**

The V2924AHS is an external hot-switch that monitors dual V2923ACN CPU operation of V2040A large-scale networking matrix switchers.

The V2923ACN controls all functions of the switcher, including video routing, PTZ operation, programming, and storage. While independent switchers generally use the V2040A matrix switcher with a single CPU, a second V2923ACN may be added by using the V2924AHS. In this dual redundant CPU system, the V2923ACN units are constantly operating in tandem with one unit designated as the primary and the second as the backup. In the event of a failure by the primary CPU, the "hot switch" will automatically transfer system operation to the backup.

Audible alarm is realized via front-panel switches. When it is enabled, there will be audible alert if either CPU goes wrong.

Meanwhile, up to 26 diagnostic LEDs are provided to indicate CPU, V2924AHS, and RS-232 port operating status.

To enhance system's alarm disposing capability, 3 relay outputs are provided to connect with auxiliary alarm devices.

Besides, V2924AHS uses automatic anti-malfunction design. Video surveillance system's operation will not be influenced if there is any power problem with V2924AHS.

Technical specifications

Connectors

RS232 ports	27, 8-pin RJ-45 connectors
CPU communication ports	2, 8-pin RJ-45 connectors
Ethernet connectors	3, 8-pin RJ-45 connectors, 10/100Mbps
High Speed Data Line	6, BNC interface
programmable monitor outputs	3, BNC interface
Alarm outputs	3, 3-pin "D" type sockets

Electrical

Input voltage	100~240VAC, 60/50Hz
Power consumption	5W
Power cord	3-wire, # 18 AWG

Mechanical

Dimensions

Base only	3.46" (H) × 16.77" (W) × 12.44" (D) 88mm (H) × 426mm (W) × 316mm (D)
With rack ears	3.46" (H) × 19.0" (W) × 12.44" (D) 88mm (H) × 483mm (W) × 316mm (D)
Weight	7lbs. (3.2 kg)
Package Size (L×W×H)	6.5" × 21.7" × 19.0" (165mm × 550mm × 483mm)
Shipping Weight	11.7lbs. (5.3 kg)
Mounting	Rack mount

Operational

Control switches

CPU selection switch	One 3-position switch
Alter on/off Switch	One 2-position switch

Diagnostic LEDs

CPU status	8 LEDs indicating the status of the two CPUs and the hot switch
Port status	18 LEDs indicating the status of the hot switch's 9 RS232 ports

Environmental

Temperature	32°F ~104°F (0°C~40°C)
Humidity	0~90% RH (non- condensing)

Certifications and Approval

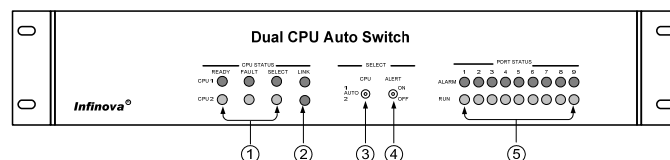|	
Product Certifications	CE, FCC, ISO 9001:2008

Ordering information

V2924AHS   Standalone hot switch for dual CPU operation, 100~240VAC self-adaptive (The CPUs should be purchased otherwise)
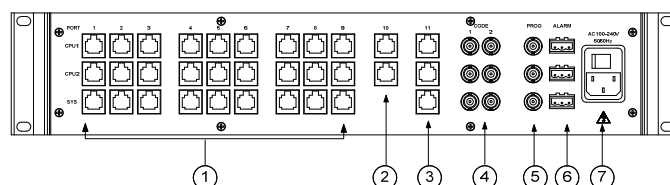
Panel diagrams

Front Panel

(1)   6 LEDs indicating the status of the two CPUs

(2)   LED indicating the status of the hot switch

(3)   Switch to select the Active CPU

(4)   Switch to enable/disable audible alert

(5)   18 LEDs indicating the status of the hot switch's RS-232 ports

Rear Panel

(1)   3 sets of 9 RS-232 ports (27)

(2)   2 communication ports for CPU

(3)   3 Ethernet ports

(4)   3 sets of 2 High-Speed Data Line ports

(5)   3 programming monitor outputs

(6)   3 Form-C relay connectors (alarm outputs)

(7)   Power socket

Typical application diagram