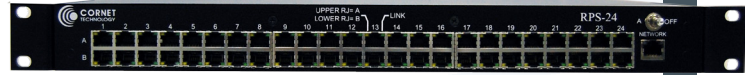


CORNET SWITCHING SYSTEMS

RPS-24 (Router Protection Switch)

Router Back-up Automation



No matter how reliable a piece of network equipment there is always a chance that something will fail. When continuous network equipment uptime is an absolute necessity, Cornet Switching Systems's Router Protection Switch (RPS-24) provides you with that extra bit of security. The RPS-24 is an intelligent protection switch targeted at backing up routers in dark or dim sites where continuous up-time is critical and rack space is at a premium. The 24-port design closely matches the number of inputs on a standard router.

These reliable switches use proven latching relay technology to ensure that connectivity is maintained even in the event of a complete power failure. The RPS-24 supports up to GigE Ethernet and is designed to automatically detect Ethernet link status.

Router Back-up Automation

The key function of the RPS-24 is to provide one-to-one backup for routers using automatic A to B, B to A switching. The intelligent RPS-24 monitors the link status of all active IP circuits from the Router. When a problem is detected, it automatically switches the problem circuit to the back-up Router and issues an SNMP trap

indicating the need for engineer intervention. The RPS-24 can detect that both main and backup routers are down. In this admittedly very rare event, a port failure trap is issued indicating the critical need for engineer on site attendance.

Control

The RPS-24 offers multiple means of unit control: through SNMP, a craft port, Telnet, and via a Web browser with highly intuitive GUI interfaces.

Use of flash memory makes software upgrading an easy on-site operation without any downtime.

Key Features

- Compact 1U packaging saves precious rack space
- Automation of a dark-site – eliminates the need for a full-time on-site technician
- Fully redundant power supply ensures uptime even on a part-failure
- Latching relays maintain connectivity even during a complete power failure
- Auto-detection of Ethernet speed eliminates the need for operator definition

Key Features

- Auto detects link status of 10/100BaseT, switches up to GigE Ethernet
- Front A/B connections – rear C connection
- Compact chassis design – 1U high x 19” W
- Latching relay technology
- LEDs on front RJ-45 connectors indicate A/B switching status and Ethernet link pulse
- Power failure alarms reported via control system
- Rear plate offers two DB-9 connectors – one for power failure alarm and the other for craft port control
- Dual redundant external power supply supports two units
- Multiple support methods: SNMP, Telnet,
- Craft port, Web browser with intuitive GUI interface

Specifications

Datacom Interface:	24 channels of A/B switching to C side of 10BaseT/100BaseT/1000BaseT Connectors: RJ-45 with integral 2 x LED's Switching time < 10 ms
Switching Method:	Latching relays provide independent switching of each channel. Individual channels switched either manually through remote control or automatically on loss of Link on either A or B sides. Cat5/Cat6 supported. Master reset to A toggle switch provided.
Remote control:	SNMP RS-232 Craft Port Telnet Web Browser
Automatic Switching:	A to B or B to A, channel by channel. Detects loss of Ethernet Link on A or B side as appropriate. Auto switching can be disabled on a channel by channel basis.

Reset after Autoswitch: *Either by Master reset to A toggle
Or through Telnet, Craft Port, Web Browser, optional*

Control Inputs: RJ-45 connector for IP/Web browser/SNMP input.
10/100BaseT auto detect
DB-9 Craft Port (DB-9 to RJ-45 adapter optional
DB-9 for power supply
Alarm reporting

Power: Externally through PSC-4N dual redundant power supply unit (Up to 2 RPS-24 per PSC-4N).
Maximum PSC-4N power dissipation 50 Watts per RPS-24.
Ability to lock power cord prevents accidental power cord removal

Environmental

Temperature Operating:	0 to 50° C (32°F to 122 °F)
Operating Relative Humidity:	10 to 80% RH Non-Condensing
Non-operating Temp:	-20° to 70°C (-5° to 160°F)
Non-operating Relative Humidity:	98% RH @ 65° C (150° F)
Physical:	19” Rackmount x 1U (1.75”) high x 9.25” deep -- Ground stud for CE compliance
Weight:	2.5 Kg
Compliance:	CE 73/23/EEC Low Voltage Directive 89/336/EEC Electromagnetic Compatibility 99/5/EEC Radio & Telecom Terminal equipment ROHS WEEE
Power Supply:	100/240 v + 10% Power cord lock On/Off switch with power LED