



PSX-5300 Protection Switch

N+1 Interface Protection for DNX Cross-Connects

Ensure High Network Availability

The PSX-5300 Protection Switch adds redundant circuit protection and enhanced system alarming and system cooling features to DNX-11, DNX-88, and S-DNX cross-connects. It provides N+1 redundancy on electrical interfaces, including T1/E1, DS3, and E3. With this protection in place, DNX systems switch to a standby module – with minimal downtime and without user intervention – if a primary module becomes non-operational. The standby module automatically assumes the configuration and cross-connection maps of the primary module at switchover. This increases service availability and minimizes the number of emergency truck rolls required to maintain and restore network elements.

The three rack unit PSX-5300 chassis stacks cleanly atop the DNX-11 chassis, and within its 11 slots, can support up to one narrowband (10+1) and two broadband (6+1 and 3+1) protection groups, depending on the configurations.

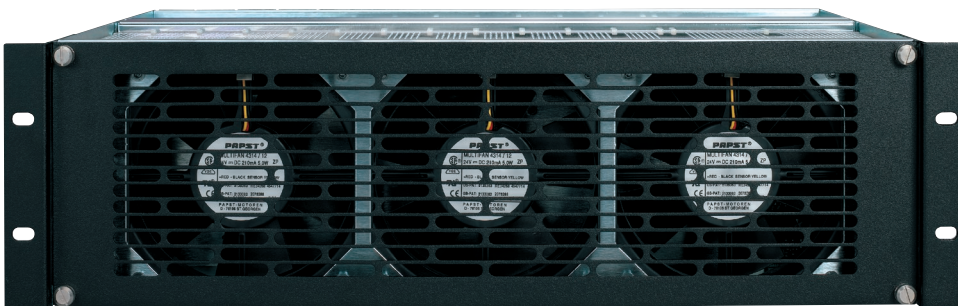
Additional Product Highlights

The PSX-5300 also provides:

- **Circuit Protection for DNX-11, DNX-88, and S-DNX Systems** – increases transmission network resiliency by protecting critical narrowband and broadband interfaces in DNX networks on an N+1 basis.
- **Additional System Alarming** – includes alarm indicators for fan failures, power supply failures, and user-configurable threshold crossing temperature alarms. Easily accessed, both via menu and SNMP interfaces, these alarms help ensure a rapid response to failures.
- **Additional System Cooling** – improves temperature control via an integral auto-sensing fan assembly. The three-speed cooling system automatically senses the temperature and changes fan speeds accordingly. Fan speed can also be controlled via menu (low, medium, or high), and an auto alarm notifies operations if fan speeds drop.

Features and Benefits

- Redundant Protection for DNX Cross-Connects
- Enhanced DNX System Alarming and Cooling
- Automatic Switchover - No Intervention Required
- Minimizes Downtime and Emergency Truck Rolls
- Increases Transmission Network Resiliency



Optional Redundancy, Ensured Availability

Network operators can secure redundant circuit protection and enhanced alarming and cooling for their DNX platforms – without burdening base system cost – by deploying the PSX-5300 Protection Switch. Added to DNX deployments, the PSX-5300 ensures carrier-class availability.

The PSX-5300 has one common logic controller slot and two 48 VDC power supply slots. All of the redundant and primary modules are hot swappable (including power supply). The common logic controller serves as the interface between the PSX-5300 and the DNX-11 System Manager Controller (SMC) IIA Module.

Note: Use of a DNX SMC-IIA rear interface module is required with the PSX-5300 Protection Switch. A PSX-5300 should be installed for cooling purposes on each nest containing a CPX module.

For more information about our intelligent networking products and solutions, please contact your Sycamore Sales Representative.

SPECIFICATIONS HIGHLIGHTS

Model Number

- MKT-006-05300: PSX-5300 Protection Switch
- MKT-006-05203: PSX Controller Module
- MKT-006-05208: PSX 48r Power Supply Module
- MKT-006-05205: PSX Broadband Primary Module
- MKT-006-05207: PSX Broadband Redundant Module
- MKT-006-05204: PSX Narrowband Primary Module
- MKT-006-05206: PSX Narrowband Redundant Module

Physical Interface

- Broadband: Female BNC 75 ohm
- Narrowband: 50-pin, RJ-48M 100(T1)/120(E1) ohm
- Controller: Shielded DB-9 Connection Supporting Serial Asynchronous Data

Equipment Heat Dissipation

- 13.1 Watts/sq.-ft/ft.

BTU/hr. Max.

- 140 BTU/hr. Max.

Dimensions

- 431.8 mm W x 355.6 mm D x 133.4 mm H (17" x 14" x 5.25"); 3 RU height

Weight

- 27.5 lbs. (Loaded)

Mounting

- Rackmount (19" or 23") 23" ordered as Center or Flush Mount

Power

- -48 VDC \pm 10%, Max. 48 Watts

Chassis

- Rear mounting interface modules, front mounting fan assembly

Environment

- 0° (32°F) to 50°C (122°F) Temperature
- 0% to 90% Humidity (Non-Condensing)

Compliance

- CB Scheme, CE, CTR 12/13, FCC, IC, IC CS-03, IC ICES-003, NEBS Level 3, UL

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