Thermal Inlet Duct for the Cisco® Catalyst 6509-E Switch For Net-Access™ Switch Cabinets (CN™)

**Specifications**

The thermal inlet duct shall be designed to be compatible with Cisco® Catalyst 6509-E switch using Computational Fluid Dynamics (CFD) modeling and verified via operational testing. The inlet duct shall consist of two RU inlet ducts and a side duct to feed cool air from the cold aisle to the switch’s side inlet and prevent hot exhaust recirculation. The modular duct shall be capable of being installed in a retrofit application without disrupting existing in-cabinet equipment and cabling.

**Technical Information**

- **Dimensions:** 31.44”L x 22.10”W x 3.44”D (799mm x 561mm x 87mm)

**Key Features and Benefits**

- **Passive airflow**
  - No additional moving parts or power required for a more reliable, efficient, economical and environmentally friendly system

- **Certified performance**
  - Designed and validated thermal performance by Panduit

- **Physical separation between inlet and exhaust airflow**
  - Segregates inlet and exhaust airflow preventing hot air recirculation reducing inlet temperatures

- **Inlet duct design**
  - Ensures the cabinet is containment ready for vertical exhaust ducting (VED) and Cold Aisle Containment

- **Maximized space utilization**
  - Allows the switch to be deployed in a 800mm wide Panduit cabinet without sacrificing thermal performance

- **Energy efficiency**
  - Provides cool air to the switch resulting in lower fan speed reducing fan power consumption

- **Day one or two installation**
  - Eliminates the requirement to replace or disturb existing cabinets, equipment and infrastructure for lower capital expenditures and minimized risk

- **Easy access**
  - Allows access to the power supplies and fan modules minimizing network downtime

- **Integral bonding to cabinet**
  - Cabinets and accessories are single-point bonded, providing a safe and reliable network, while reducing installation costs

**Applications**

The 9-slot Cisco® Catalyst 6509-E Switch provides high port densities that are ideal for many wiring closet, distribution, and core network as well as data center deployments. Panduit has developed a comprehensive physical infrastructure solution for the 6509-E switch platform.

By providing a path for cool air to the switch, data center temperature set points can be raised, resulting in higher energy efficiencies and lower operating costs.

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Switch application

Dimensions are in inches. [Dimensions in brackets are metric].

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