

Thermal Inlet Ducts for Cisco Catalyst 6880-X Switch for Net-Access™ N-Type Cabinets

PANDUIT®

DATA SHEET

Specifications

The thermal inlet duct shall be designed to be compatible with the Cisco Catalyst[®] 6880-X switch using Computational Fluid Dynamics (CFD) modeling and verified via operational testing. This is a right-to-left airflow switch. The inlet duct shall occupy 8 RU; consist of 3 RU (top) inlet duct, 5 RU required for the Cisco Catalyst[®] 6880-X switch and a side duct to feed cool air from the cold aisle. Air is drawn in the top, then travels to the switch's side inlet. The modular duct shall be capable of being installed in a retro-fit application without disrupting existing in-cabinet equipment and cabling.

Inlet Duct for Cisco Catalyst 6880-X Switch Applications



Technical Information

Dimensions:

DIRLC25S23W (3 RU Top and side duct): 22.92"D x 13.76"H x 20.87"W
(582.1mmD x 349.5mmH x 530mmW)

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 by 10°C to 15°C (30°F)
Inlet duct design	Ensures the cabinet is containment ready for vertical exhaust ducting (VED) and aisle containment
Maximized space utilization	Allows the switch to be deployed in a 800mm wide Panduit [®] Net-Access™ N-Type Cabinets (with vertical blanking panels) without sacrificing thermal performance
Energy efficiency	Provides cool air to the switch resulting in lower fan speed reducing fan power consumption and improving reliability
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 Cisco Catalyst[®] 6880-X Series Switch is an extensible fixed aggregation switch that delivers a best-in-class Cisco Catalyst 6500 feature set in a small form factor. This 40G/100G-ready platform is ideal for those who want to introduce premium 10G services in small or midsize campus backbones. Panduit has developed a comprehensive physical infrastructure solution for the Catalyst 6880-X Modular Switch.

When the Catalyst[®] 6880-X Modular Switch is used as an access layer switch, it could be deployed using a Panduit Pod strategy that employs an End of Row (EOR or Middle of Row (MoR) physical topology in the Equipment Distribution Area (EDA) of the data center. If deployed as an aggregation or core switch, it could be located in the Main Distribution Area (MDA) of the data center. 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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