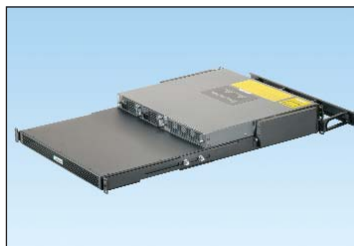# NEW! Modular ToR Switch Inlet Duct

specifications

The inlet duct shall be designed using CFD modeling and thermal lab verification, and shall be compatible with Cisco^ 4948, 4928 and 4924 switches. The 1 RU switch shall optimize thermal performance by channeling air directly from the cold aisle to the switch inlet decreasing operating temperature. The passive ducting system shall leverage the switch fans resulting in a more energy efficient solution, reducing energy and operating costs. The modular duct shall be capable of being installed in retro-fit applications without disrupting existing in-cabinet equipment and cabling.

technical information

Dimensions: 29.0"L x 18.9"W x 3.4"H (737mm x 480mm x 86mm)

key features and benefits

Provides cool air into the switch	Protects equipment and increases energy efficiency in ToR high density server applications
Cisco compatible product via uniform and low impedance flow distribution within switch: WS-C4948 (-S and -E) WS-C4948-10GE (-S and -E) WS-C4928-10GE ME-4924-10GE	Verified interoperability for increased network reliability
Prevents hot spots and allows installation of high-density server cabinets close together in new builds or existing data centers	Reduces the need for extra data center real estate and extra Cap/Ex for CRAH units
Integral switch fans bring cool air to the switch	No additional moving parts, fans, or power required for a more reliable, efficient, economical and environmentally friendly system
Allows for installation after switch and other equipment is installed	Eliminates the requirement to replace or disturb existing cabinets, equipment and infrastructure for lower capital expenditures and minimized risk
Manages cables from the ports on the switch	Provides a complete cable and thermal management solution
Enables installation in standard 19 in. 4-post racks and cabinets	Eliminates the requirement to replace cabinets and existing infrastructure for lower capital expenditures
Allows for installation in cabinets with mounting depths from 24" – 30" (610mm – 762mm)	Allows greater network flexibility and reliability
Allows access to power supplies and fan blades	Allows ease of maintenance for lowest installed cost

Modular ToR Switch Inlet Duct	
Inlet duct:	CDE1
Net-Access™ Server Cabinet (CS Family)*	
Server cabinet with side panels:	CS1
Server cabinet without side panels:	CS2
Net-Access™ Cabinet Accessories	
Bracket to vertically mount 19" equipment:	CVPPB
End mount slack spool:	CNSPE
Center mount slack spool:	CNSPC
Set of 4 casters:	CNCSTR
POU mounting bracket:	CVPDUB

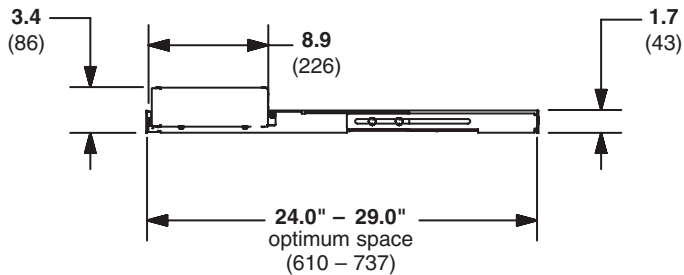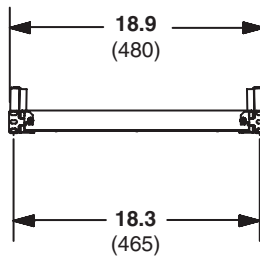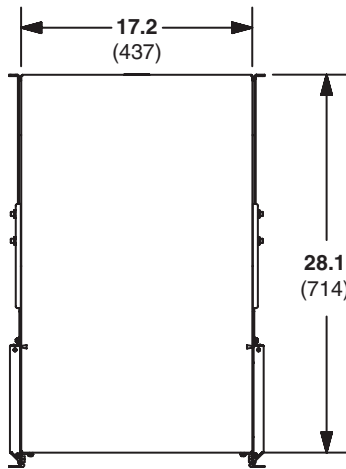*For additional information on Net-Access™ Cabinets, refer to brochure SA-RKCB12.

applications

Top of Rack (ToR) switches, such as the Cisco 4948, enable multi-layered aggregation of high-performance servers. When deployed within server cabinets or racks, the modular duct provides a cool air path to the air intakes on the sides of the switch. 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.

Modular ToR switch inlet duct has tested compatible with Cisco 4948, 4928 and 4924 switches.
Go to www.panduit.com/cisco1 for disclaimer.
^ Cisco is a registered trademark of Cisco Technology, Inc.

Figure 1. In-cabinet application

Figure 2. CDE and switch exploded view

17.2
(437)

28.1
(714)

18.9
(480)

18.3
(465)

3.4
(86)

8.9
(226)

1.7
(43)

24.0" – 29.0"
optimum space
(610 – 737)

CDE1

Dimensions are in inches. (Dimensions in parentheses are metric.)

For a copy of *PANDUIT* product warranties, log on to www.panduit.com/warranty

For more information

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**Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300 and reference RKSP37**

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