



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Energy Efficient Data Center Cabinet Systems



Net-Access™ Cabinet has tested compatible with Cisco Nexus 7018, MDS 9513, and Catalyst 6509. Go to www.panduit.com/cisco1 for disclaimer.

PANDUIT®

building a smarter,
unified business foundation
Connect. Manage. Automate.



Enhance Reliability. Overcome Thermal Challenges.

Data centers are mission-critical facilities and the nerve center of successful business operations. As more businesses are adopting consolidation, virtualization, and automation of networking assets to drive business results, a silo-based approach to designing, deploying and managing the physical infrastructure is becoming increasingly inadequate.

The growing interdependence of systems and applications, and the increased demands that they place on physical infrastructures, requires the integration of traditionally disparate and proprietary systems. This trend is dramatically changing infrastructure design, management strategies and effective synchronization of critical systems, opening the door for seamless convergence and interoperability of all core business systems.

Energy Efficient Data Center Cabinet Systems

Panduit draws from proven methodologies and global best practices to develop innovative, highly reliable and scalable physical infrastructure solutions. Panduit's switch, server, and storage equipment cabinet solutions significantly reduce total cost of ownership by increasing network availability, mitigating risk, and minimizing power consumption.

Both Panduit® Net-Access™ and new Net-SERV™ Cabinet Systems deliver energy efficiencies through shared thermal and cable management concepts.

Net-Access™ Cabinet System

Net-Access™ Switch and Server Cabinets have been optimized for higher density switch and server applications. Superior cable management, inset frame, and in-cabinet ducting options ensure proper airflow for improved network performance and availability.

Net-SERV™ Cabinet System

NEW Net-SERV™ Cabinets are designed to provide the best combination of space utilization and thermal management for server applications. Net-SERV™ Cabinets are designed to complement the Net-Access™ Cabinets and provide a complete, optimized physical infrastructure solution for all switch and server architectures.

Panduit's Unified Physical Infrastructure (UPI)

A unified approach to physical and logical systems architecture is imperative for solutions to fully address the need for availability, agility, integration, and security.

Panduit has developed the industry's most comprehensive and holistic approach to a Unified Physical Infrastructure and can help enterprises align, converge, and optimize critical systems – communication, computing, control, power, and security – to build a smarter, unified business foundation.

Mitigate Risk – Efficient physical infrastructure management enables seamless integration to reduce risks which can occur throughout core systems.

Lower Cost – Panduit physical infrastructure solutions drive financial advantages to reduce energy and occupancy costs, and help secure competitive advantage.

Increase Agility – A high level of integration within the physical infrastructure enables flexibility and improved business agility.

Enhance Sustainability – UPI-based solution offerings enable organizations to meet sustainability goals by driving resource and energy efficiencies across the physical infrastructure.

Unified Physical Infrastructure



communication computing control power security

Reduce Energy Costs 25% or More

Surging demand for processing power, work load virtualization and consolidation is increasing data center heat loads, making the thermal management of data centers challenging. Thermal issues that were once acceptable in a typical low-density data center are no longer tolerable in a high-density, high heat load environment:

- Hot air recirculation – exhaust is pulled back into equipment inlets
- Leakage – unintended hot/cold airflow paths
- Mixing of hot and cold air – results in a loss of cooling effectiveness
- Airflow obstructions – increased resistance to IT equipment fan airflow

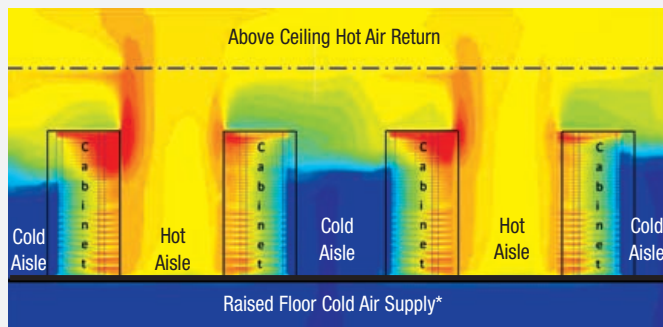
Data center operators typically respond to these thermal issues in one or more of the following ways:

- Lower the supply air temperature set point on the cooling equipment
- Oversupply cool air by increasing the cooling equipment fan speed, increasing the amount of bypass air
- Run more cooling equipment than necessary, underutilizing available cooling capacity
- Oversize the cooling system to address isolated high-density regions

These responses are often ineffective and increase the capital and operational expenses by reducing the efficiency of the cooling system. However, by addressing the thermal issues at the root cause, data center operators can reduce energy costs while increasing thermal performance and efficiency.

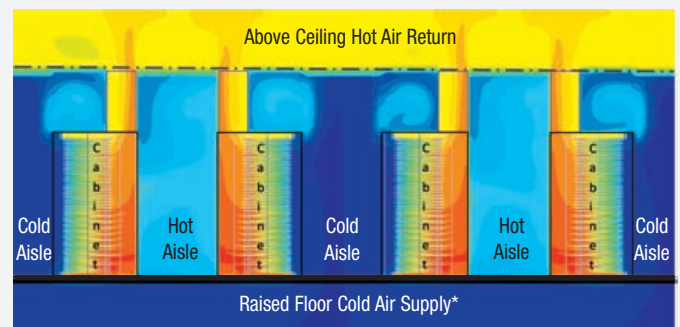
Panduit's passive, optimized thermal management solutions enable high-density, high heat load data center designs while reducing energy costs of a typical data center by 25% or more.

Room Level Computational Fluid Dynamics Analysis of Data Center Thermal Characteristics



Typical Data Center

- Cool air does not reach the top portions of the cabinets, making servers in the top rack units vulnerable to overheating
- Hot exhaust air follows complex airflow path back to CRAH units
- Mixing of hot and cold air reduces the thermal efficiency of the cooling system

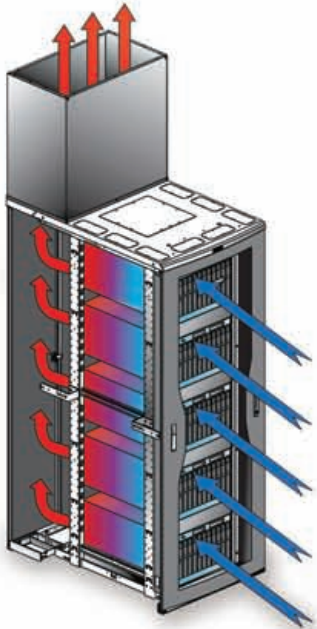


Data Center Utilizing Panduit Thermal Solutions

- Uniform distribution of cool air reaching the top of the cabinet
- Hot exhaust air is isolated and ducted directly to CRAH units
- Segregation of hot and cool air improves the overall thermal efficiency of the cooling system and makes the data center thermal environment more predictable and scalable

* Alternatively, in a slab environment, cold air can be supplied directly to the room.

Panduit Energy Efficient Cabinet Thermal Solutions



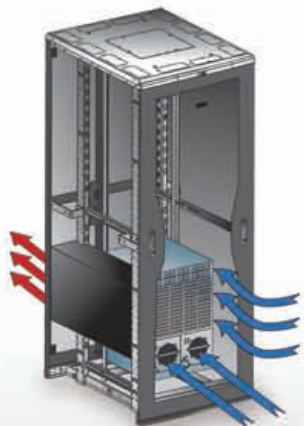
Panduit Energy Efficient Cabinets include innovative thermal solutions designed to maintain hot/cold air separation which enables improved cooling efficiency and reduced energy consumption.

- Vertical exhaust system to isolate hot exhaust air and duct it directly to CRAH units
- In-cabinet ducting solutions to properly direct cooling and exhaust airflows when network equipment has unconventional airflow patterns
- Integrated cable management solutions to enable optimized airflow and equipment performance
- Air sealing accessories to prevent leaks and enhance the utilization of cooling air

When combined with a well-designed cooling system, Panduit integrated cabinet thermal solutions can help reduce data center energy costs 25% or more.

Exhaust Containment for Efficient Cooling

The Panduit Vertical Exhaust System (VES) channels hot air from the cabinet directly into the ceiling plenum, eliminating hot air recirculation which can reduce energy consumption by allowing room and chilled water temperature set points to be raised. Studies have shown that each 1°C rise in chilled water temperature translates into a 3-4% energy savings. CapEx can be reduced by 16% through more effective use of cooling capacity.¹



In-Cabinet Ducting Optimizes Cooling Air Flow

For network equipment that utilize side-to-side airflow patterns, in-cabinet ducting can be used to optimize cooling system efficiency by establishing front-to-back airflow patterns through the cabinet.

1) Each 1°C rise in chilled water temperature translates into 3-4% energy savings ¹ASHRAE 2005, Design Considerations for Datacom equipment Centers, American Society of Heating, Refrigeration, and Air Conditioning Engineers, ISBN 1-931862-94-X. Page 138.

Improved Cable Management Optimizes Air Flow

Panduit cabinets provide integral cable management, large pathways for routing and slacking cables, and vertically mounted patch panels and power outlet units (POUs). The integrated cable management positions cabling outside of equipment exhaust areas, minimizing airflow disruptions that could cause equipment overheating and failures.



Sealing Accessories Boost Cooling Efficiency

Sealing accessories prevent the mixing of hot and cold air and increase thermal efficiency by eliminating leakage through cabinet and floor openings. Panduit® Cool Boot® Air Sealing Fittings seal off cable pass-through openings in the floor and the cabinet top minimizing leakage of air from the access floor and the cabinet.



Blanking panels seal empty rack spaces, eliminating the bypass of cooling air and recirculation of hot exhaust air maintaining hot and cold separation for improved efficiency.





Net-Access™ Cabinet System

Thermal Management and Cable Capacity for Switch and Server Applications

Net-Access™ Cabinets are the first choice for switch, server, and storage area network applications that require maximum thermal management capability, and the capacity to manage high cable densities.

Net-Access™ Switch Cabinet features include:

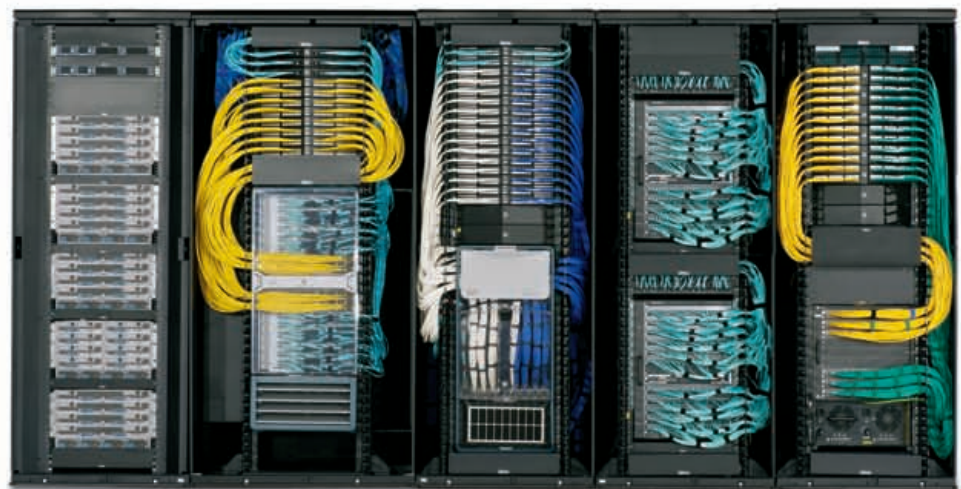
- In-cabinet ducting solutions to enable optimized airflow of switches with side-to-side airflow
- Large vertical pathways for high cable count applications
- Cable management fingers mount to front and back posts for maximum cabling configurations
- Dual hinge door for maximum accessibility between adjacent cabinets

Net-Access™ Server Cabinet features and options include:

- Vertical exhaust duct for optimal thermal performance
- Provides maximum cable management area and thermal performance
- Vertical patch panel configuration provides up to eight additional rack units in the same footprint
- Utilizes same platform as switch cabinet to enable maximum flexibility and deployment options



Net-Access™ Cabinet Applications



**UCS
Server**

**Nexus
7018**

**Nexus
7010**

**MDS
9513**

**Catalyst
6509**



Net-Access™ Switch Cabinets are compatible with Cisco^ Nexus 7018, MD9500 Series, and 6500 Series Switches.

Nexus 7018 and 7010 Applications are supported by Application Guides/Notes available at panduit.com.

Net-Access™ Cabinet Solution for Cisco^ Nexus 7018 Switch

Panduit offers a Net-Access™ Cabinet solution designed to meet the requirements of the Cisco Nexus 7018 Switch. The 1000mm (40") wide cabinet provides space to route and manage high densities of cables and provides required clearance for ducting to accommodate side to side cooling requirements.



1 Cable Management

- Finger sections can be located where needed, on front and back of posts, to manage cables for greater routing flexibility
- Fingers align with rack spaces to ensure proper bend radius control and support cables as they transition to the vertical pathway



Cisco Nexus 7018 Cabinet - Complete solution consists of the following:

2 Air Duct Kit

- Exhaust and Inlet Ducts channel switch airflow to comply to hot aisle/cold aisle layouts
Part Number – **CNAE7018**



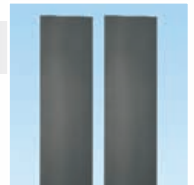
3 Cabinet Extension Kit

- Extends cabinet to 40" width and 48" depth to meet switch dimensional requirements
- Perforated split front and rear doors with lockable handles protect equipment and cables
Part Number – **CN7018-EXT**



4 Side Panel Kit

- Solid side panel is removable and lockable to provide security
* Covers one side of cabinet (two required per cabinet)
Part Number – **CNPS7018**



5 Cabinet

- Cabinet with two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts.
Part Number – **CN3**



Net-Access™ Switch Cabinet Features

1 Large, Accessible Cable Pathways

- Vertical cable pathway design is optimized to provide unobstructed access to cabling for easy moves, adds, and changes



2 Dual Hinge Door

- Opens to the left and right enabling complete unobstructed access to adjacent cabinets and pathways



3 Cable Management

- Finger sections can be located where needed, on front and back of all four posts, to manage cables for greater routing flexibility
- Fingers align with rack spaces to ensure proper bend radius control and support cables as they transition to the vertical pathway



4 Thermal Management

- Inset cabinet frame posts and superior cable management ensure clear pathways and create a large area for airflow to provide proper heat dissipation
- Optional air ducts provide exhaust channels for equipment with high heat density applications



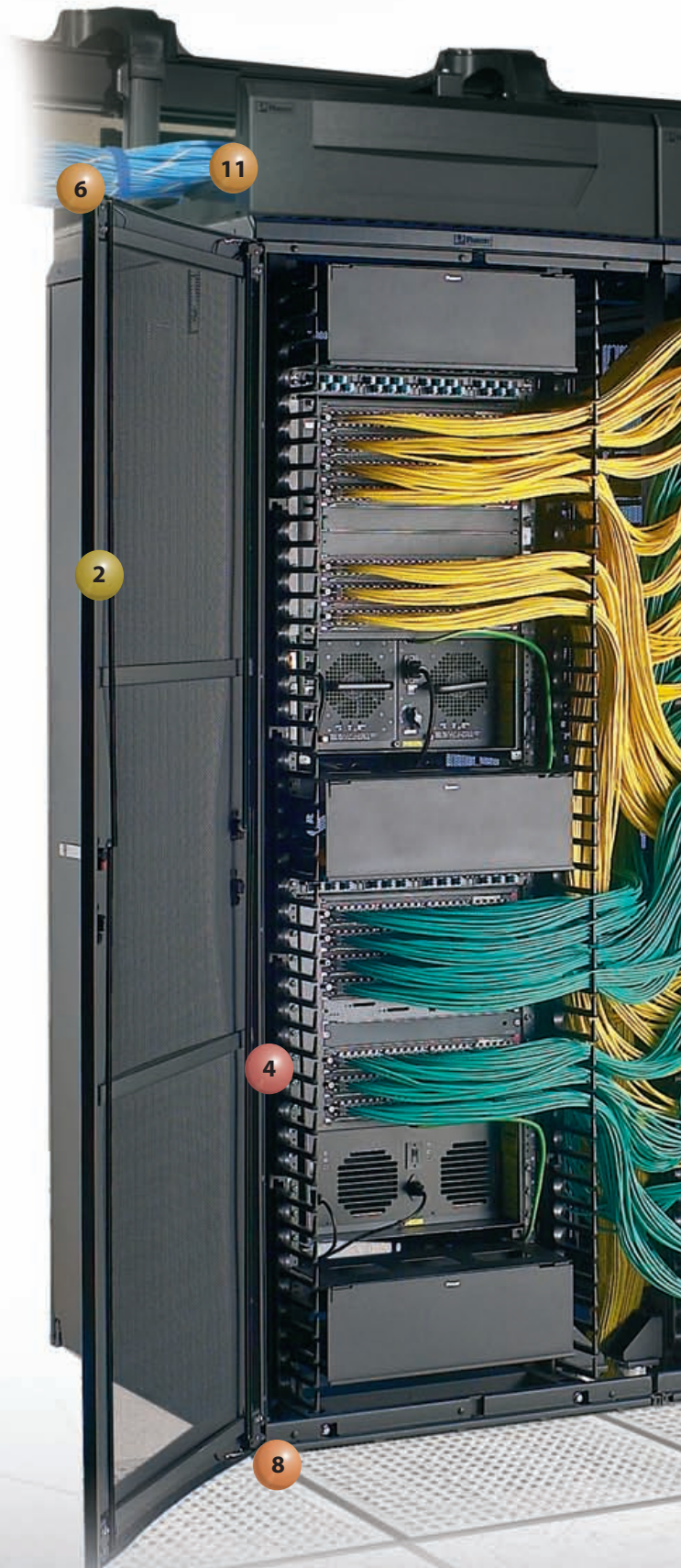
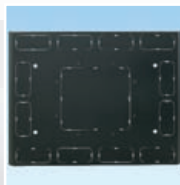
5 Grounding and Bonding

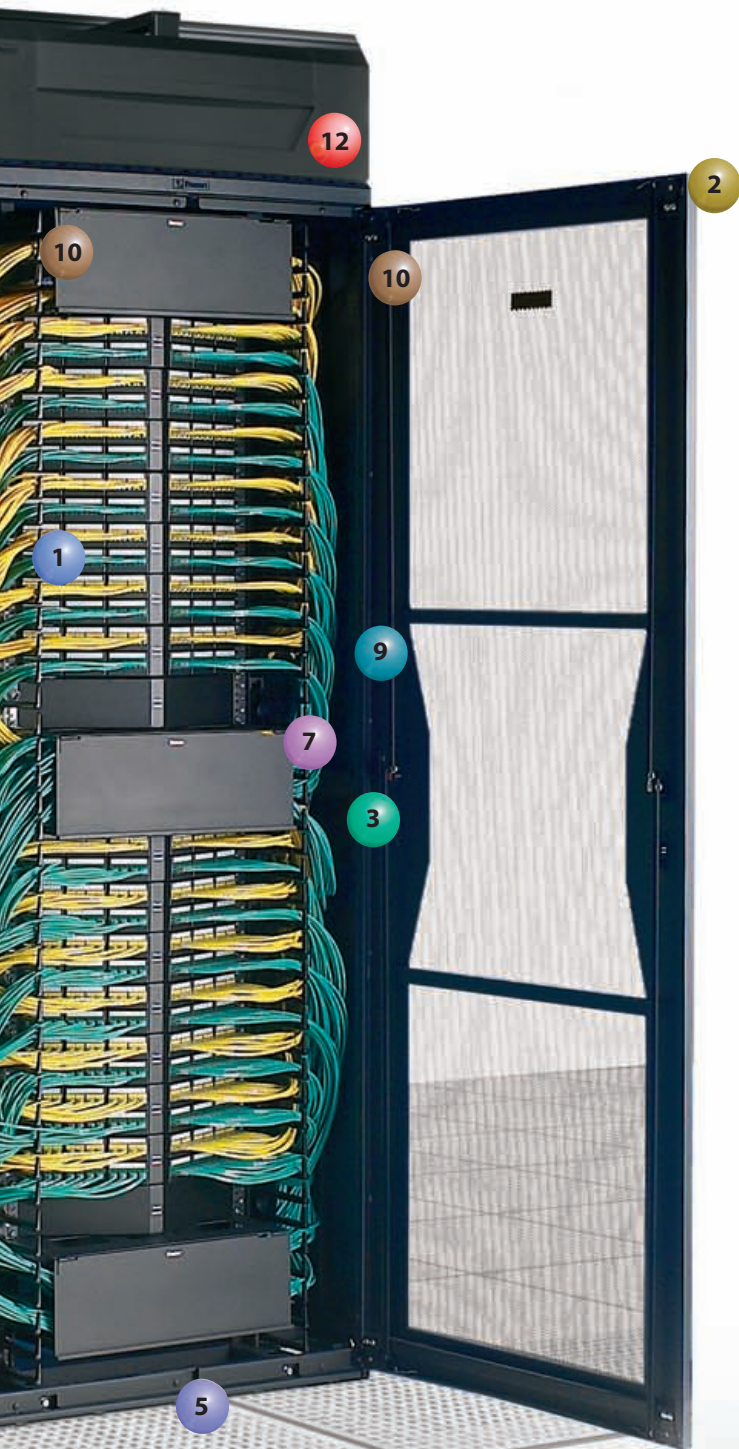
- Entire cabinet is fully electrically bonded, including equipment rails, doors, and side panels for protection of equipment and personnel
- StructuredGround™ Grounding System provides simple and convenient grounding for the entire cabinet



6 Routing Options for Overhead/Underfloor Cabling

- Knockouts in the top allow multiple options for overhead cable routing to provide flexibility and scalability
- Large bottom openings provide pathway for routing of cables from underfloor





7 Adjustable Rails for Equipment Mounting

- Front and rear rails are easily and fully adjustable to accommodate a variety of equipment mounting requirements
- Printed rack space identification on rails provides for quick and easy installation of equipment
- Optional split rails provide flexibility for mounting of multiple equipment depths



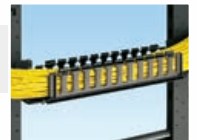
8 Casters and Leveling Legs

- Optional casters mount to side of posts enabling safe, easy field installation or removal without tipping cabinet
- Leveling legs can be safely and easily adjusted without tipping the cabinet



9 Optional Side Cabinet Cable Management Brackets

- Allow mounting of 19" horizontal cable managers to provide pathway for routing cables from front-to-back of the cabinet
- Allow for mounting of cable strain relief bars to provide support for underfloor or overhead cabling



10 Optional Slack Spools

- Organize and manage patch cord slack allowing standardization of patch cord lengths
- Available in side mount for single cabinet or center mount for ganged applications to provide cable routing flexibility



Options and Accessories

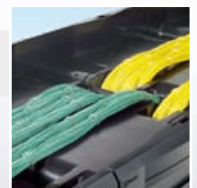
11 Cabinet Top Air Sealing Fittings

- Optional air sealing fitting (CTG3X8) for routing and sealing copper cables entering the top of the cabinet. For use in 3" x 8" cabinet opening
- See page 27 for optional fiber optic fitting for routing and sealing fiber cables entering top of cabinet



12 CabRunner™ Overhead Cable Routing System

- Wide, molded design provides a high capacity pathway that is located directly on top of row of cabinets and does not need secondary mounting infrastructure
- Integral 3" (75mm) bend radius control protects cables from physical damage



Net-Access™ Server Cabinet – Vertical Patch Panel Application

Vertical patch panels maximize rack space utilization for additional servers and other devices.

For 600mm (24") and 700mm (28") wide server cabinet solutions see pages 18-26.

1 Cable Management

- Fingers align with rack spaces to ensure proper bend radius control and support cables as they transition to the vertical pathway
- Finger sections can be located where needed to manage cables for greater routing flexibility



2 Thermal Management

- Cable management, inset cabinet frame, perforation patterns, and vertical blanking panels work together to ensure proper server airflow



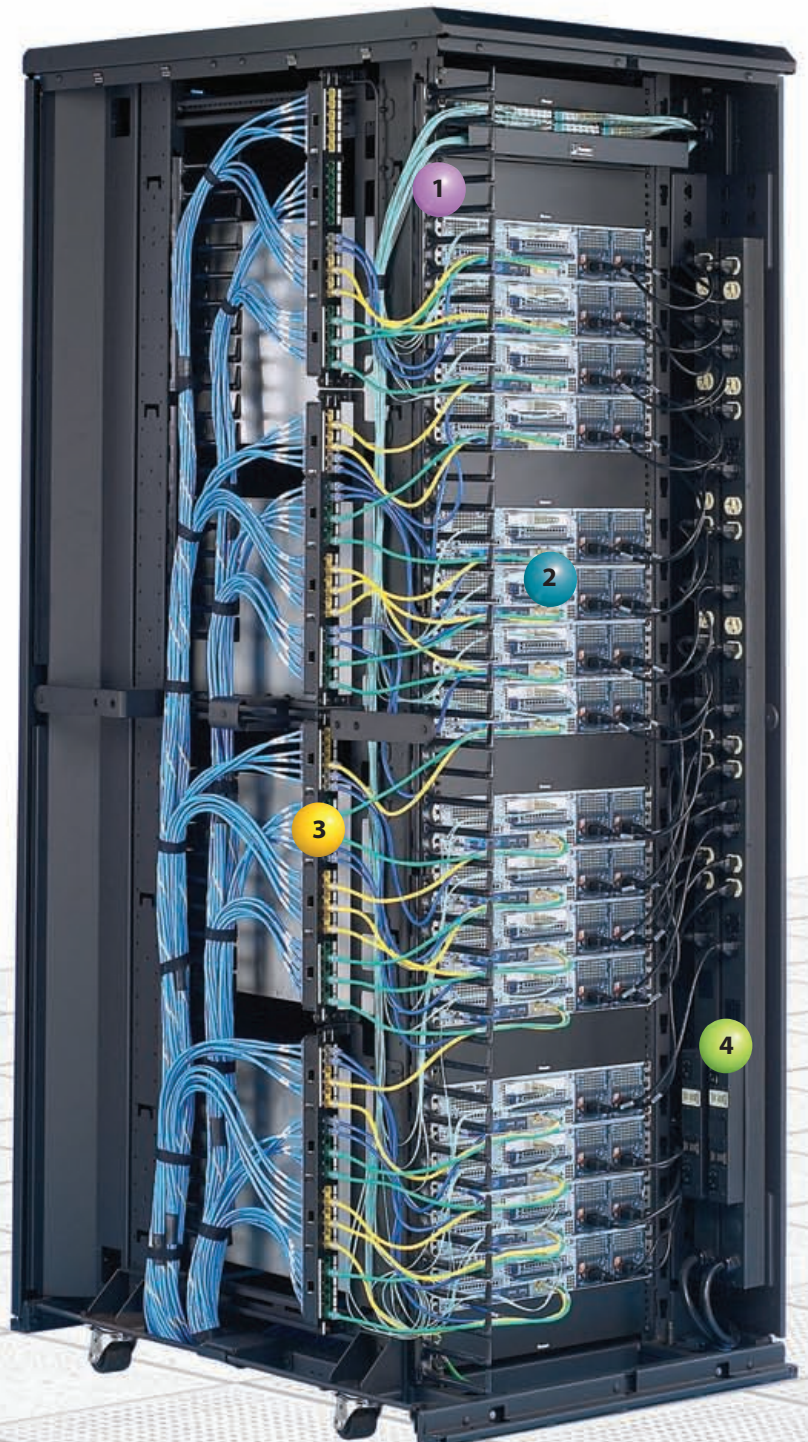
3 Vertical Patch Panel Mounting

- Optional brackets allow for vertical mounting of up to four 1 RU EIA 19" copper or fiber patch panels to the side of the cabinet posts
- Aligns ports with rack spaces allowing standardization of patch cord lengths to reduce cable slack and provide superior thermal management



4 Power Outlet Unit Mounting

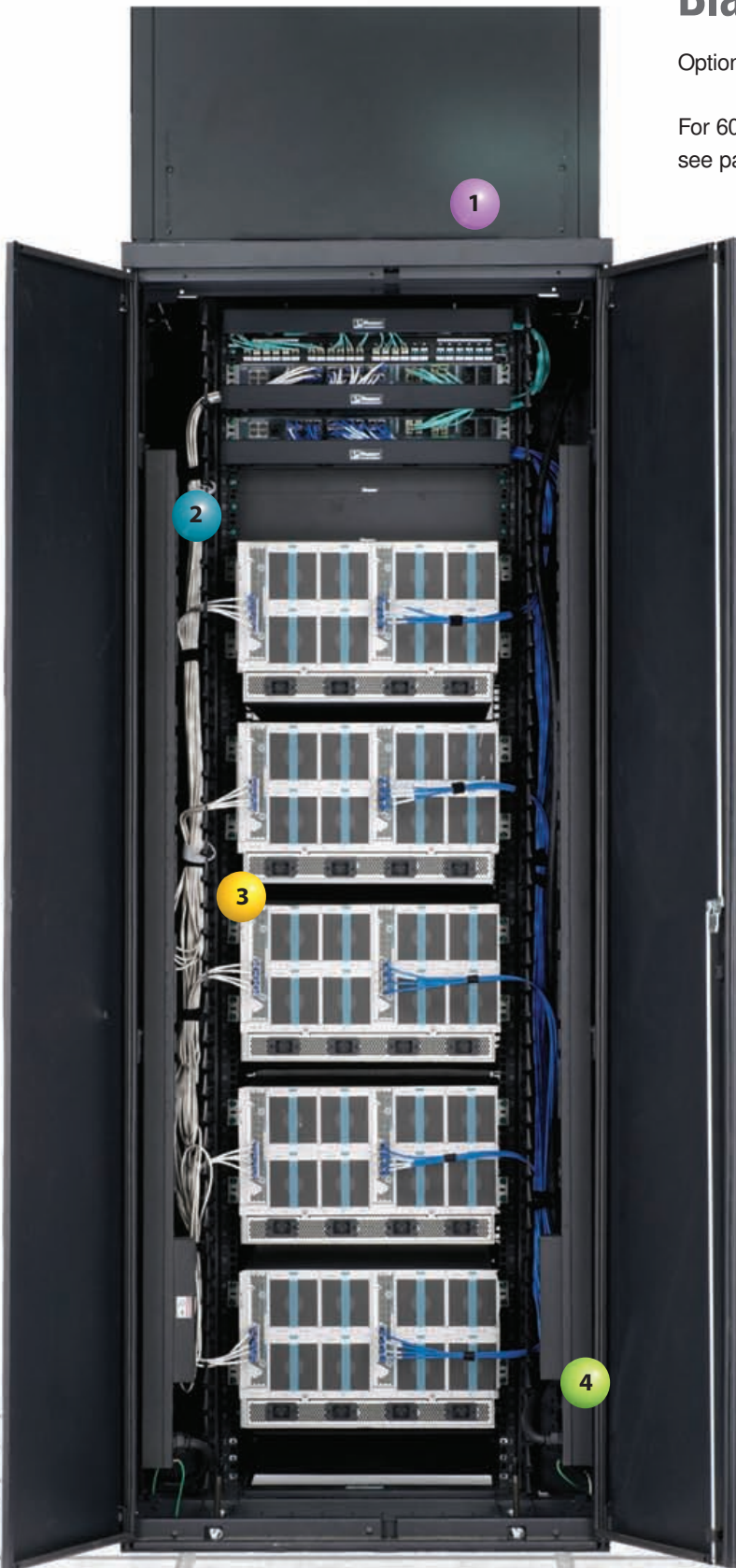
- Brackets are included to vertically mount POU's minimizing power cord lengths
- Universal features allow screw-on or tool-less mounting of Panduit or other POU's



Net-Access™ Server Cabinet – Blade Server Application

Optional Vertical Exhaust System provides optimal thermal performance.

For 600mm (24") and 700mm (28") wide server cabinet solutions see pages 18-26.



1 Vertical Exhaust Duct

- Optional duct directs hot exhaust air to the plenum, enabling open area cooling efficiency



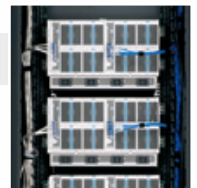
2 Cable Management

- Fingers align with rack spaces to ensure proper bend radius control and support cables as they transition to the vertical pathway
- Finger sections can be located where needed to manage cables for greater routing flexibility



3 Thermal Management

- Cable management, inset cabinet frame, perforation patterns, and vertical blanking panels work together to ensure proper server airflow



4 Power Outlet Unit Mounting

- Brackets are included to vertically mount POU's, minimizing power cord lengths
- Universal features allow screw-on or tool-less mounting of Panduit or other POU's





Net-Access™ Networked Power Outlet Units

Designed specifically for the Net-Access™ Cabinet, the Net-Access™ Vertical Power Outlet Unit maximizes power density and allows monitoring of power consumption via the network for improved network reliability.



Outlets align with rack units

- Vertical mounting does not occupy rack units
- Allows for standardization on optimal power cord lengths to reduce cord slack and congestion behind the equipment
- Plug retention device ensures a secure connection and provides a labeling location for power cord identification

High Power Density

- 30 Amps per power outlet unit
- Six power outlet units can be mounted on one side of the Net-Access™ Cabinet providing 90 Amps redundant power in the space of two traditional 66" vertical power outlet units

Monitor Power Consumption

- LED on unit displays voltage, current, power, and IP/MAC addresses
- Network connection allows remote monitoring and user definition of alarm traps and collection intervals via web access
- Daisy chain up to 50 power outlet units via an RJ-45 connection to a single switch port



Kit of (2) power cords and (2) plug retention devices for redundant power connections.

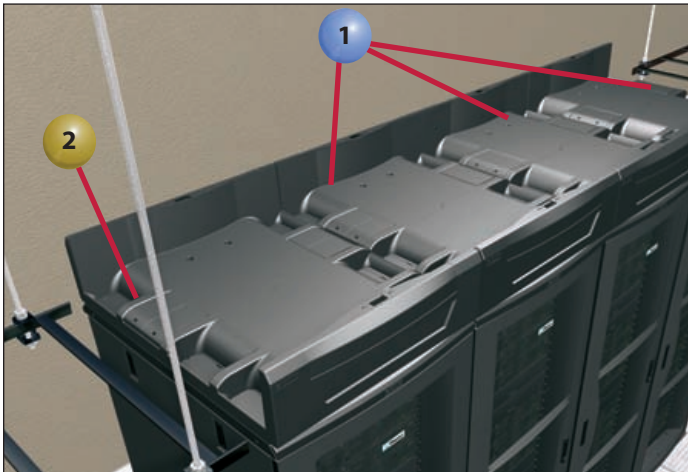
Part Number	Description	Std. Pkg. Qty.
PV12LN*	Vertical power strip 30 Amp, 240V, (12) IEC, C-13 receptacles, (2) 15 Amp magnetic, breakers, 10' power cord with NEMA L6-30P twist lock plug, cTUVus. Dimensions: 24.12"H x 1.75"W x 7"D (613mm x 44.5mm x 178mm).	1
PV12PN*	Vertical power strip 30 Amp, 240V, (12) IEC, C-13 receptacles, (2) 15 Amp magnetic, breakers, 10' power cord with IEC 309 plug, CE TUV T-Mark for EN60950-1. Dimensions: 24.12"H x 1.75"W x 7"D (613mm x 44.5mm x 178mm).	1
PC14C13-KIT	1.5' (458mm) Black C13 to C14 Power Cord (P/N: PC14C13BL1.5), 2.0' (610mm) Black C13 to C14 Power Cord (P/N: PC14C13BL2), Plug Retainer, Black (P/N: PC14C13-60), Plug Retainer, Natural Ivory (P/N: PC14C13-69).	1

*For use with Net-Access™ Cabinet.

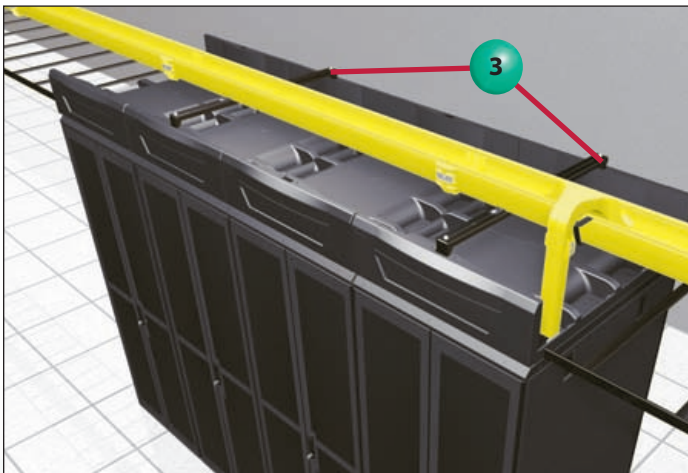
Net-Access™ Cable Routing Systems

CabRunner™ Overhead Cable Routing System

The CabRunner™ Overhead Cable Routing System protects, routes, and manages large quantities of twisted pair data cables into and out of Net-Access™ Cabinets. This versatile system quickly mounts to the top of the cabinets and easily integrates with other cable pathways used throughout the data center for reduced installation costs.



CabRunner™ Overhead Cable Routing System mounts directly on top of Net-Access™ Switch and Server Cabinets for ease of installation.



FiberRunner® Cable Routing System mounts to CabRunner™ Overhead Cable Routing System with optional trapeze bracket providing greater versatility.

1 Innovative Design

- Eliminates need for multiple infrastructure elements reducing installation time
- Complements cabinet design enhancing data center aesthetics
- Large pathway area accommodates high cable densities



2 Cable Routing and Management

- Multiple spillouts align with inlets on cabinets providing greater routing versatility
- Injection molded bridges cover unused spillouts to protect cables improving network performance



3 Integration with Fiber Optic Pathway

- Trapeze brackets allow fast and easy integration of the FiberRunner® Cable Routing System, reducing installation time and offering greater system flexibility



FiberRunner® Cable Routing System

The FiberRunner® Routing System consists of channels, fittings, and spillouts designed to segregate, route, and protect fiber optic and high performance copper cabling. Supported by a trapeze bracket, it can be installed directly over the CabRunner™ Overhead Cable Routing System for enhanced system flexibility.

Net-Access™ Cabinet Specifications

- 84.0"H x 31.5"W x 41.1"D (2134mm x 800mm x 1044mm) – 45 RU
- All welded frame construction
- Adjustable equipment mounting rails
- CN series equipment mounting depth up to 25.9" (658mm)
- CS series equipment mounting depth up to 29" (737mm), rear rail adjustment only
- Doors include keyed swing handles
- Side panels include keyed push button latches

- Cabinet supplied with cable management; for additional cable management finger sections, specify part number CNBRFK
- Durable black polyester epoxy powder coat finish
- UL Listed 2500 lbs. (1134 kg) load rating
- Cabinet ships assembled, one per pallet
- CN cabinets include hardware kit: (25) #12-24 screws, ganging brackets, and grommet edging
- CS cabinets include hardware kit: (50) cage-nuts and screws, ganging brackets, anti-tip brackets, and grommet edging

Cable Capacity

Channel	No Slack Spool							With Slack Spool						
	Channel Area		Cable Capacity*					Channel Area		Cable Capacity*				
	In. ²	cm ²	Cat 6A (0.298")	Cat 6A (0.289")	Cat 6 (0.250")	Cat 5e (0.187")	Fiber (3mm)	In. ²	cm ²	Cat 6A (0.298")	Cat 6A (0.289")	Cat 6 (0.250")	Cat 5e (0.187")	Fiber (3mm)
End	42.2	272.3	242	257	343	614	1540	32.4	209	185	197	264	471	1182
Center	84.4	544.5	484	514	687	1229	3081	74.6	481.3	427	454	607	1086	2723

*Note: Capacities are based upon a fill rate of 40% to accommodate proper cable routing techniques.

Net-Access™ Switch Cabinet



CN1
CN1CN



CN2
CN2CN



CN3
CN3CN



CN4



CN5

Part Number	Description	Std. Pkg. Qty.
CN1**	Cabinet with dual hinge perforated front door. Split perforated rear door. Solid side panels. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Empty cabinet weight is 373 lbs. (169 kg).	1
CN2**	Cabinet with dual hinge perforated front door. Split perforated rear door. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Empty cabinet weight is 275 lbs. (125 kg).	1
CN3**	Cabinet with two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Empty cabinet weight is 207 lbs. (94 kg).	1
CN4	Cabinet with split perforated front and rear doors. Solid side panels. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Empty cabinet weight is 360 lbs. (163 kg).	1
CN5	Cabinet frame with split perforated front and rear doors. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Empty cabinet weight is 262 lbs. (119 kg).	1

**For cage nut rails, use CN*CN, i.e. CN1CN.

Net-Access™ Server Cabinet



CS1



CS2



CS3

Part Number	Description	Std. Pkg. Qty.
CS1	Cabinet with single hinge perforated front door. Split perforated rear door. Solid side panels. Two sets of cage nut equipment mounting rails. 45 RU cable management on rear of rear posts. One set of vertical blanking panels. One set of POU mounting brackets. Empty cabinet weight is 397 lbs. (180 kg).	1
CS2	Cabinet with single hinge perforated front door. Split perforated rear door. Two sets of cage nut equipment mounting rails. 45 RU cable management on rear of rear posts. One set of vertical blanking panels. One set of POU mounting brackets. Empty cabinet weight is 297 lbs. (135 kg).	1
CS3	Cabinet with two sets of cage nut equipment mounting rails. 45 RU cable management on rear of rear posts. One set of vertical blanking panels. One set of POU mounting brackets. Empty cabinet weight is 226 lbs. (102 kg).	1

Net-Access™ Vertical Exhaust System

- For use with Panduit® Net-Access™ Server Cabinet (CS Series)
- Engineered design minimizes required plenum area behind cabinet
- Cabinet extension adds 6.5 inches (165mm) to depth of cabinet
- Passive cooling system
- Directly vents network equipment exhaust into return plenum of data center



Part Number	Description	Std. Pkg. Qty.
CVED32	Vertical exhaust cabinet extension and solid rear split doors. Leveling legs and gasket kit included.	1
CVED32VE	Variable duct extension is infinitely adjustable between 42" (1067mm) to 70" (1778mm).	1
CVED32VES	Variable short duct extension is infinitely adjustable between 20.0" (508mm) to 36.0" (914mm).	1

Net-Access™ Cabinet Accessories



CNDDE



CNDSH



CNDS



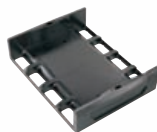
CNPS



CNRT



CSRCE



CRB6BL



CRB6VEDBL



CRBRDGBL



CRTB



CRVEDTB

Part Number	Description	Std. Pkg. Qty.
CNDDE	Dual hinge door opens to the left and right to provide maximum accessibility to the cabinet. Open perforated design enables optimum airflow to equipment. Includes keyed swing handles and two point latches.	1
CNDSH	Single hinge door quickly reverses from left-hinging to right-hinging for increased data center design flexibility. Open perforated design enables optimum airflow to equipment. Includes keyed swing handles.	1
CNDS	Split doors open in the middle, minimize the door swing footprint and can be used in narrow data center hot aisles. Perforated design provides optimum airflow. Includes keyed swing handles and single point latch.	1
CNPS	Removable solid side panel covers and protects cable and equipment. Lockable push button latches allow for quick release and removal of side panels for easier and faster moves, adds, and changes.	1
CNPP	Removable perforated side panels cover and protect cable and equipment. Lockable push button latches allow for quick release and removal of side panels for easier and faster moves, adds, and changes.	1
CNRT	#12-24 threaded equipment mounting rails, sold in pairs. For use when additional sets of rails are desired for multiple equipment mounting depths within a cabinet.	1
CNRC	Cage nut equipment mounting rails, sold in pairs.	1
CSRCE	Extended front server cabinet cage nut equipment mounting rails, sold in pairs.	1
CRB6BL	CabRunner™ Overhead Cable Routing System Base Unit with 6" (150mm) high wall. Supplied with shroud and fasteners required for assembly to Net-Access™ Cabinets.	1
CRB6VEDBL	CabRunner® Overhead Cable Routing System Base Unit with 6" (150mm) high wall. Supplied with a shroud and fasteners required for assembly to Net-Access™ Cabinets with a Vertical Exhaust Duct.	1
CRBRDGBL	CabRunner™ Overhead Cable Routing System Bridge Insert. Snaps in to CRB6BL to cover unused cable spillouts and provide bend radius control for adjacent cabinet.	1
CRTB	CabRunner™ Overhead Cable Routing System Trapeze Bracket. Used to provide a mounting structure for integrating FiberRunner® Cable Routing System to the base unit.	1
CRVEDTB	CabRunner® Overhead Cable Routing System Trapeze Bracket. Used to provide a mounting structure for integrating FiberRunner® Cable Routing System to the base unit on Net-Access™ Cabinets with a vertical exhaust duct.	1

Part Number	Description	Std. Pkg. Qty.
CNBRFK	9 RU cable management finger sections. Kit includes finger sections to complete two sides of posts.	1
CNAE1	Air ducts provide exhaust channels for equipment for high heat density configurations. Designed for Cisco^ 6509 switch.	1
CNAE2	Air ducts provide exhaust channels for equipment for high heat density configurations. Designed for Cisco^ 9513 switch.	1
CNAE3	Air ducts provide exhaust channels for equipment for high heat density configurations. Designed for Cisco^ 6513 switch.	1
CNAE7018	Air duct kit for Cisco^ Nexus 7018 switch. Use with CN7018-EXT extension kit and CN3 cabinet to house the Cisco^ Nexus 7018 switch.	1
CNPS7018	Removable solid side panels cover and protect cable and equipment. Side panels for use with CN7018-EXT extension kit for the cabinet to house the Cisco^ Nexus 7018 switch. Covers one side of cabinet (2 required per cabinet).	1
CN7018-EXT	Cabinet extension kit for Cisco Nexus 7018 switch. Use CN3 cabinet to achieve 40"W x 48"D (1003mm x 1219mm) cabinet frame.	1
CNSPE	End channel slack spools manage copper and fiber patch cord slack in the vertical pathway. Package includes left and right slack spools and mounting brackets.	1
CNSPCA	Center channel slack spool for use between ganged cabinets. Includes one center spool and one mounting bracket.	1
CNFBB	Side cabinet cable management bracket for side mounting 19" EIA equipment.	1
CNCSTR	Casters can be field installed without tipping cabinet for easy movement of a loaded or unloaded cabinet. Includes set of four casters.	1
CVPPB	Bracket to vertically mount 1 RU EIA 19" products including copper and fiber patch panels and power outlet units.	1
CVPDUB	Bracket for vertical POU mounting to the side of the cabinet posts (kit of two).	1



CNBRFK



CNAE1



CNSPE



CNSPCA



CNFBB



CNCSTR



CVPPB



CVPDUB

^Cisco is a registered trademark of Cisco Technology, Inc.

Net-SERV™ Cabinet

700mm (28") Wide – Vertical Patch Panel Server Configuration

Vertical patch panels maximize rack space utilization for additional servers and other devices.

• Cabinets provide an optimized solution for server applications, and complement the Net-Access™ Cabinet with a consistent aesthetic appearance

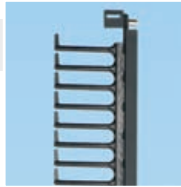
* Vertical patch panel solution provides up to four additional rack units in the same footprint

* Positions network connections in the optimum location allowing the use of single length patch cords

* See page 24 for detailed ordering information

1 Finger Cable Management

- Fingers align with rack spaces to ensure proper bend radius control and support cables as they transition to the vertical pathway
- Finger sections can be located where needed to manage cables for greater routing flexibility



2 Thermal Management

- Cable management, outset cabinet frame, perforation patterns and vertical blanking panels work together to ensure proper server airflow



3 Power Outlet Unit Mounting

- Brackets are included to vertically mount POU's minimizing power cord lengths
- Tool-less mounting of Panduit or other POU's



4 Vertical Patch Panel Mounting

- Brackets allow for vertical mounting of up to four 1 RU EIA 19" copper or fiber patch panels to the side of the cabinet posts
- Aligns ports with rack spaces allowing standardization of patch cord lengths to reduce cable slack and provide superior thermal management



Net-SERV™ Cabinet

700mm (28") Wide – High Density Server Configuration

Data and power cables are organized in segregated channels away from server exhaust for unobstructed air flow.

- 700mm (28") wide Net-SERV™ Cabinets provide an optimized solution for server applications, and complement the Net-Access™ Cabinet with consistent aesthetic appearance
- The high density solution provides four separate vertical pathways and modular L-rings with bend radius control for optimum cable routing
- See page 25 for detailed ordering information



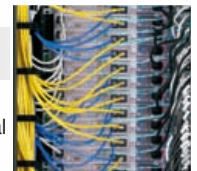
1 Vertical Exhaust Duct

- Optional duct directs hot exhaust air to the plenum, enabling improved cooling efficiency



2 Thermal Management

- Cable management, outset cabinet frame, perforation patterns, and vertical blanking panels work together to ensure proper server airflow



3 Power Outlet Unit Mounting

- Brackets are included to vertically mount POUs, minimizing power cord lengths
- Tool-less mounting of Panduit or other POUs



4 Cable Management Channel

- Four channels per cabinet provide optimal cable management channels for segregation
- Modular L-rings provided per channel allow placement of cable management at desired rack unit
- Channel capacity = 203 (Cat. 6A cables @0.310 dia. @ 40% Fill)



Net-SERV™ Cabinet

600mm (24") Wide – Standard Density Server Configuration

Integral cable management and POU mounting brackets accommodate a wide range of server applications.

- 600mm (24") wide Net-SERV™ Cabinets utilize the minimum footprint required for server applications and complement the Net-Access™ Cabinet with a consistent aesthetic appearance
- The standard density solution provides cable management fingers at each rack unit to manage data and power cables
- See page 23 for detailed ordering information

1 Thermal Management

- Cable management, outset cabinet frame, perforation patterns, and vertical blanking panels work together to ensure proper server airflow



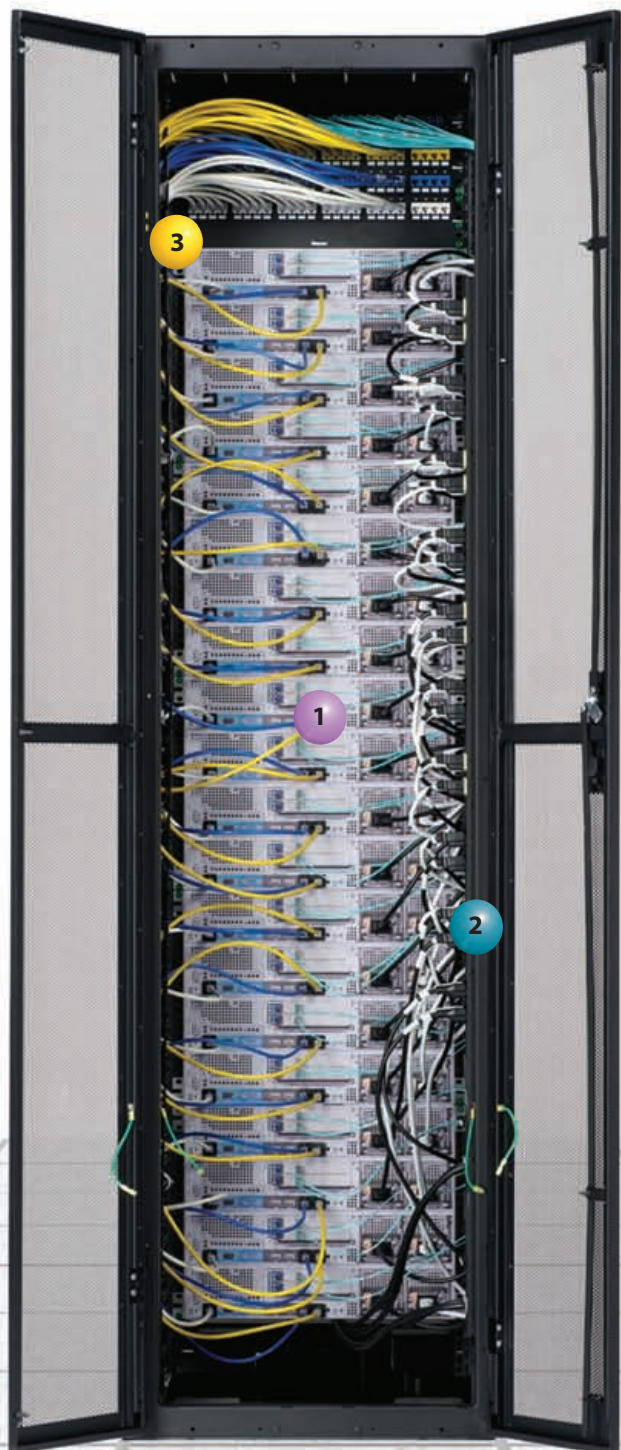
2 Power Outlet Unit Mounting

- Brackets are included to vertically mount POUs, minimizing power cord lengths
- Tool-less mounting of Panduit or other POUs



3 Finger Cable Management

- Fingers align with rack spaces to ensure proper bend radius control and support cables as they transition to the vertical pathway
- Finger sections can be located where needed to manage cables for greater routing flexibility
- Channel capacity = 94 (Cat. 6A cables @0.310 dia. @ 40% Fill)



Net-SERV™ Cabinet

600mm (24") Wide – High Density Server Configuration

Data and power cables are organized in segregated channels away from server exhaust for unobstructed air flow.

- 600mm (24") wide Net-SERV™ Cabinets utilize the minimum footprint required for server applications and complement the Net-Access™ Cabinet with a consistent aesthetic appearance
- The high density solution provides four separate vertical pathways and modular L-rings with bend radius control for segregated cable routing
- See page 25 for detailed ordering information



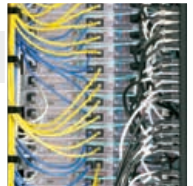
1 Vertical Exhaust Duct

- Optional duct directs hot exhaust air to the plenum, enabling improved cooling efficiency



2 Thermal Management

- Cable management, outset cabinet frame, perforation patterns, and vertical blanking panels work together to ensure proper server airflow



3 Power Outlet Unit Mounting

- Brackets are included to vertically mount POUs, minimizing power cord lengths
- Tool-less mounting of Panduit or other POUs



4 Cable Management Channel

- Four channels per cabinet provide optimal cable management channels for segregation
- Modular L-rings provided per channel allow placement of cable management at desired rack unit
- Channel capacity = 122 (Cat. 6A cables @ 0.310 dia. @ 40% Fill)



Net-SERV™ Cabinet Specifications

- 1200mm (48") depth
- Two sets, cage nut, infinitely adjustable equipment mounting rails, (50) #12-24 cage nuts and screws included
- Printed rack space identification on front and back of rails, default is numbers up, may be field adjusted to numbers down
- Equipment mounting depth up to 42" (1067mm)
- Doors include keyed swing handles
- Side panels include keyed locks
- POU mounting brackets included to mount two POUs
- Vertical blanking panels installed
- Easily adjustable leveling legs installed
- Ganging brackets included
- Anti-tip brackets included
- Available in four configuration options: Basic, Standard Density, High Density, and Vertical Patching
- Durable black polyester epoxy powder coat finish
- All welded frame construction
- 2500 lbs. (1134 kg) load rating
- Removable top cap included
- Cabinet ships assembled, one per pallet
- Optional casters available
- Optional vertical exhaust duct for maximum energy efficiency



Part Number Example:

S	7	5	2	C	1	2	9	H	V
Series	Width	Height	Depth	Rails	Front Doors	Back Doors	Side Panel	Cable Management	Top Panel
S = Server	6 = 600mm (23.6") 7 = 700mm (27.6")	2 = 42RU 5 = 45RU	2 = 1200mm (47.2")	C = Cage Nuts, Numbers Up	1 = Perf. Full Single Hinge	2 = Perforated Split 3 = Solid Full Single Hinge	1 = One Single Side Panel 2 = Two Side Panels 9 = No Side Panels	F = Standard Density – Left and Right Fingers H = High Density – Four Cable Management Panels P = Vertical Patch B = Basic – No Cable Mgmt.	V = Vertical Exhaust Duct

Basic Configuration

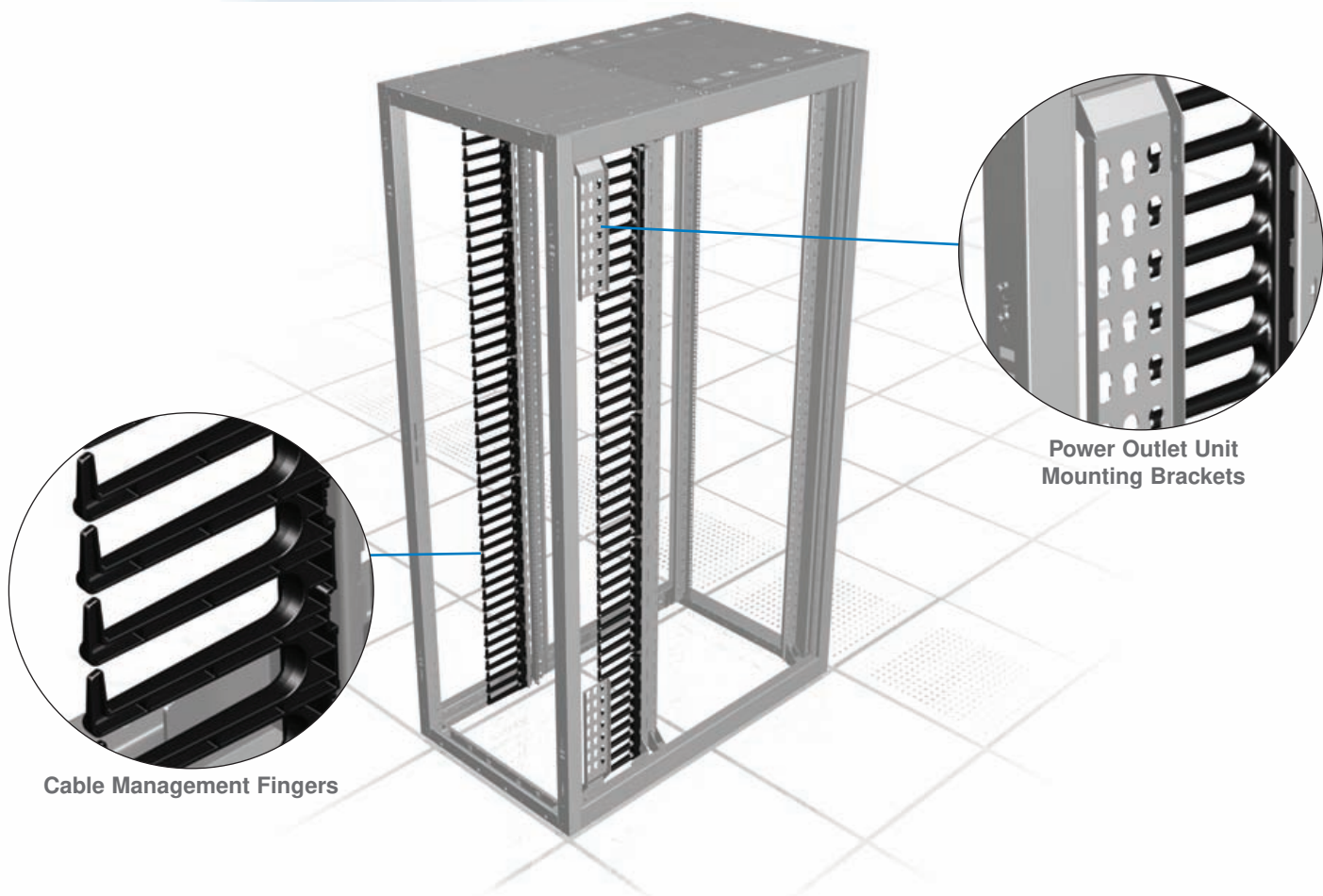
- Cabinet provided without cable management
- Includes brackets for mounting two vertical power outlet units



Part Number	Width	Height	Description
S722C122B	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Split perforated rear door. Solid side panels.
S752C122B	28"/700mm	45 RU (83"/2118mm)	
S622C122B	24"/600mm	42 RU (78"/1984mm)	
S652C122B	24"/600mm	45 RU (83"/2118mm)	



Part Number	Width	Height	Description
S722C129B	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Split perforated rear door. No side panels.
S752C129B	28"/700mm	45 RU (83"/2118mm)	
S622C129B	24"/600mm	42 RU (78"/1984mm)	
S652C129B	24"/600mm	45 RU (83"/2118mm)	



Cable Management Fingers

Power Outlet Unit Mounting Brackets

Standard Density Cable Management Configuration

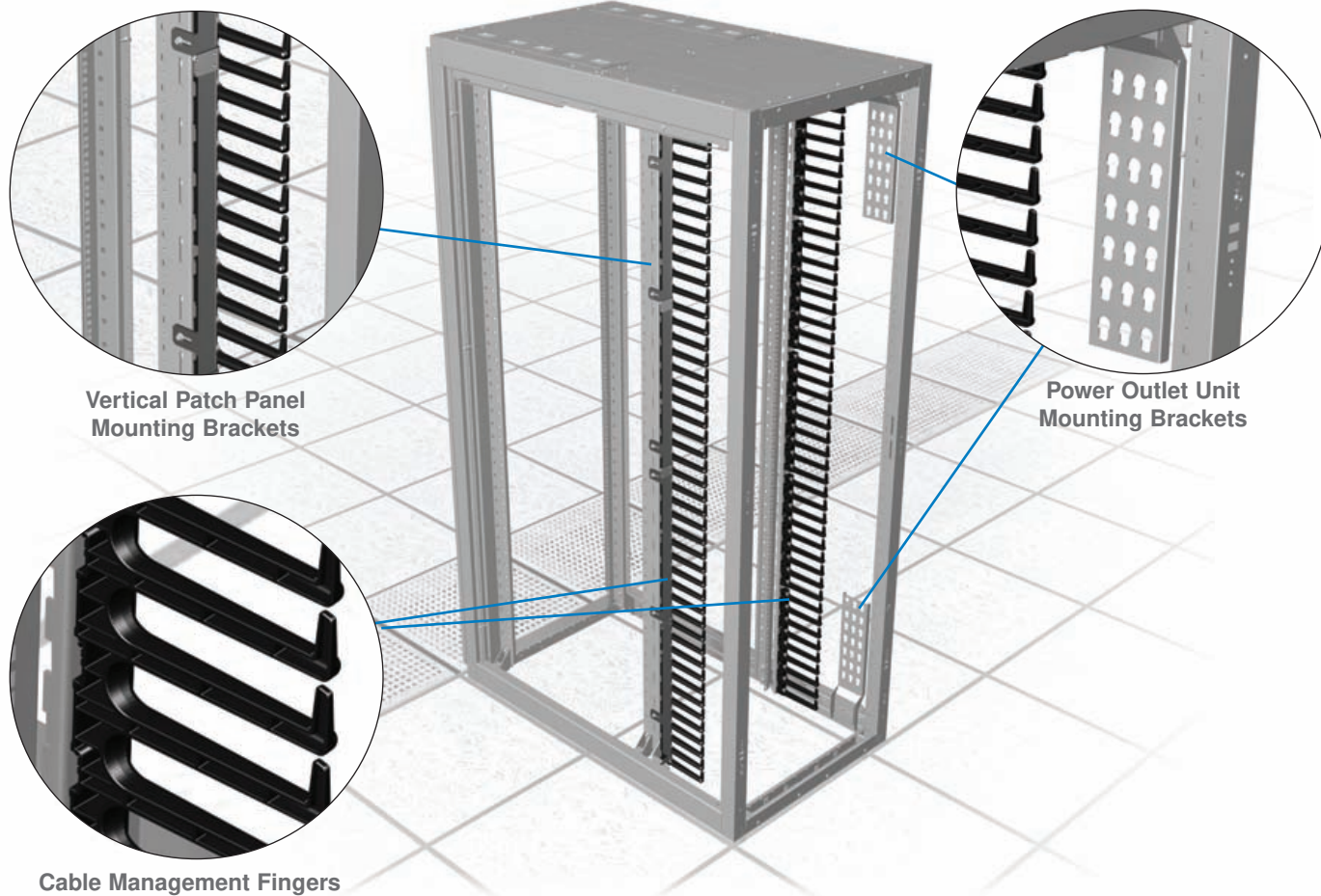
- Cabinet supplied with two sets of cable management fingers

Part Number	Width	Height	Description
S722C122F	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Split perforated rear door. Solid side panels.
S752C122F	28"/700mm	45 RU (83"/2118mm)	
S622C122F	24"/600mm	42 RU (78"/1984mm)	
S652C122F	24"/600mm	45 RU (83"/2118mm)	

Part Number	Width	Height	Description
S722C129F	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Split perforated rear door. No side panels.
S752C129F	28"/700mm	45 RU (83"/2118mm)	
S622C129F	24"/600mm	42 RU (78"/1984mm)	
S652C129F	24"/600mm	45 RU (83"/2118mm)	



Net-SERV™ Cabinet Specifications



Vertical Patch Cable Management Configuration

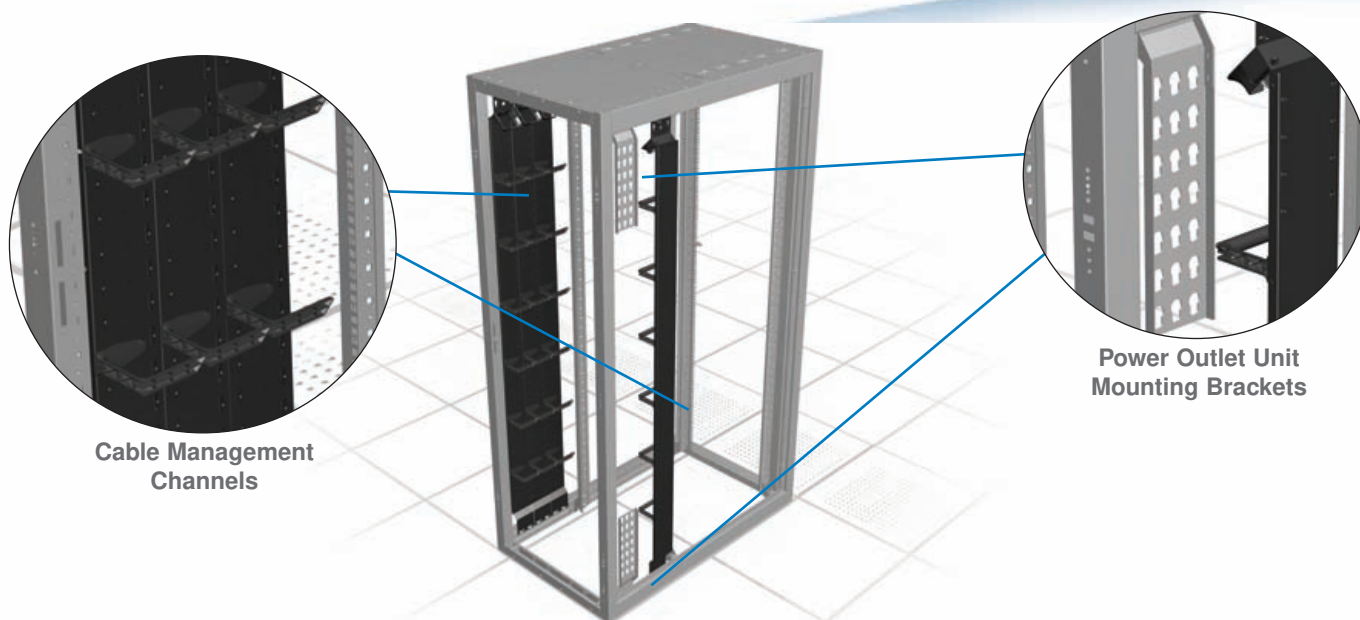
- Cabinet supplied with cable management fingers and vertical 19" EIA brackets



Part Number	Width	Height	Description
S722C122P	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door.
S752C122P	28"/700mm	45 RU (83"/2118mm)	Split perforated rear door. Solid side panels.



Part Number	Width	Height	Description
S722C129P	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door.
S752C129P	28"/700mm	45 RU (83"/2118mm)	Split perforated rear door. No side panels.



Cable Management Channels

Power Outlet Unit Mounting Brackets

High Density Cable Management Configuration

- Cabinet supplied with four cable management channels and L-Rings

Part Number	Width	Height	Description
S722C122H	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Split perforated rear door. Solid side panels.
S752C122H	28"/700mm	45 RU (83"/2118mm)	
S622C122H	24"/600mm	42 RU (78"/1984mm)	
S652C122H	24"/600mm	45 RU (83"/2118mm)	

Part Number	Width	Height	Description
S722C129H	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Split perforated rear door. No side panels.
S752C129H	28"/700mm	45 RU (83"/2118mm)	
S622C129H	24"/600mm	42 RU (78"/1984mm)	
S652C129H	24"/600mm	45 RU (83"/2118mm)	

Configuration for Vertical Exhaust Duct and High Density Cable Management

- Cabinet supplied with four cable management channels and L-Rings
- Vertical exhaust duct extends cabinet supplied with 42"(1067mm) to 70"(1778mm)
- Directly vents network equipment exhaust into return plenum of data center

Part Number	Width	Height	Description
S722C131HV	28"/700mm	42 RU (78"/1984mm)	Cabinet with full perforated front door. Solid rear door. Single side panel.
S752C131HV	28"/700mm	45 RU (83"/2118mm)	
S622C131HV	24"/600mm	42 RU (78"/1984mm)	
S652C131HV	24"/600mm	45 RU (83"/2118mm)	

