Freestanding Cabinets
Strength, Security, Stability and Style >>>

Helping you
Organize. Store. Secure.™
technology equipment ...

Sold by: TWAComm.com
http://www.TWAComm.com
Toll Free: (877) 389-0000
CPI Cabinets — Strength, Security, Stability and Style

Freestanding four-post cabinets, or server racks, provide security for rack-mount computer and data storage equipment. CPI’s products feature high-quality construction and have been continually enhanced to meet your changing needs. Different height, width, and depth configurations are available to suit your requirements and budgets.

Benefits of all CPI cabinets include:

- Up to 2,000 lb load rating
- Aluminum or steel construction
- Aesthetic appeal
- RMU-marked, adjustable-depth mounting rails
- Integrated cable management space
- Removable doors and panels
- Cable Management Space: Space is provided along both sides of the cabinet for cable management and power distribution. Cable managers and power strips adjust in depth to align with equipment and require no rack-mount space.
- Quick Release Doors: Available in four styles, doors are reversible to open right or left and interchangeable front-to-rear. Electronic locks can be added to all doors. A space-saving double door is also available.
- C-Series SlimFrame™ Cabinet System: The SlimFrame Cabinet is 24” wide to match the dimensions of a raised-floor tile in a data center. SlimFrame is shown with the solid metal door.

Beyond their exceptional capabilities to secure your valuable equipment, CPI systems also help your devices run effectively. The total CPI Cabinet Solution integrates equipment support with physical security, remote user access monitoring, cable management, thermal management and power distribution, so you improve lifespan, decrease downtime and increase long-term returns.

Solution Overview

Continued on page 3 >>>

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Why Choose CPI?

CPI is the leading provider of structural support systems. Benefits of CPI Cabinet Systems include:

**Industry Leadership**
CPI cabinets have superior specifications, ensuring that your installation meets or exceeds industry standards.
- CPI’s award-winning systems are perfect for high-profile installations. At the same time, CPI offers a cost-effective solution for everyday projects.
- Many CPI cabinets are UL Listed.
- All cabinets have integrated space (up to 3” per side) for cable management and include one vertical cable manager. Additional managers are available. Cable managers, which use either rings or composite fingers, have rounded edges to protect cables from tears and stretching.
- RMU markings are clearly printed on all cabinet rails, simplifying installation of components. In addition rails can be easily adjusted to fit the depth of any device.

**High Quality**
CPI products are sturdy, strong and durable.
- Most CPI cabinet systems are now rated to hold up to 2,000 pounds with or without casters. This unsurpassed strength results in less deflection under loaded conditions than competitors’ offerings.
- Frames are constructed of anodized extruded aluminum or welded steel. Aluminum material provides high strength at a lighter weight.
- Each product has uniquely designed packaging that undergoes a rigorous drop test. First-rate packaging prevents dings and scratches, so your product arrives in perfect condition.

**Reliable Service & Information**
CPI will respond to your needs quickly.
- Knowledgeable salespeople will perform a site survey and provide recommendations or on-site product evaluations.
- Customer Service, toll-free at 800-834-4969, will answer your questions and assist with ordering.

**Technical Support**
You don’t need to be a product expert.
- CPI Technical Support offers free layout services to help you configure your installation based on your equipment list and room dimensions. You will receive drawings and a Bill of Materials to explain the proposal.
- The same design tools are available for your use on the CPI Website, www.chatsworth.com/designtools.
- Contact Technical Support at techsupport@chatsworth.com.

**Fast Availability**
CPI products are available through local, national and international stocking distributors.
- To find a CPI Authorized Distributor or other purchasing options, call Customer Service at 800-834-4969 or visit the CPI Website, www.chatsworth.com/howtobuy.

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**Fast Fact**

Custom Products
New products often begin as customer requests. CPI can customize a solution based on your needs and requirements. Simply call CPI Technical Support at 800-834-4969
Applications

Data Center An organization’s data center houses a variety of technological equipment to operate telephony, data and security systems. Four-post cabinet systems, or server racks, are used to secure servers and other heavy equipment. Because of the sensitive data and information stored on these devices, companies often choose enclosed cabinets with tops, sides and doors for greatest security. Properly deployed cabinets improve the total cooling efficiency of most data centers over open racks. Those who desire a clean, closed aesthetic appearance also decide to use cabinets instead of open systems.

CPI cabinets provide strength, security, stability and style. Almost all full-length freestanding cabinets feature 2,000 lb load rating, integrated cable management and a choice of doors. In addition, the MegaFrame® Family of Cabinet Systems is constructed of aluminum for a high-strength, lightweight, appealing design.

With heat-producing devices stored inside enclosures, data centers also require thermal management. Extreme temperatures can cause damage and reduce the lifespan of expensive servers, switches and other active components. CPI offers cooling options such as fans, integrated airflow baffles, blowers and perforated doors.

Furthermore, CPI’s complete cabinet solution includes equipment support, remote user access monitoring, power distribution, grounding and bonding, seismic bracing and cable pathway — all necessary for an effective data center.

Co-Location Small businesses, such as service firms and retail stores, often have limited square footage or little need for a dedicated data center. With only a few servers and small amounts of equipment to operate their networks, small businesses may share space with others or hire an ISP to host their technological needs off-site.

Regardless of the scenario, co-location environments have unique needs. Physical security — both into and within the facility — poses the greatest concern. The infrastructure and devices used by every company must be uniquely segregated and secured from each other in order to avoid damage, compromised access or transmission interference caused by people or nearby equipment.

CPI offers the E-Series ISP Co-Location Cabinet, which features three secure compartments in a 7'H cabinet. Each 14 RMU section includes a vertical power strip, optional rear door-mounted fan and lockable doors. In addition, the Co-Location Cabinet features a patented three-channel raceway on each side of the cabinet to separate power and data cables for each compartment. Therefore, three tenants or companies within a co-location center or shared data center can use the same cabinet without mingling devices or cables.

In addition, CPI offers electronic locking systems that ensure the greatest security because of their ability to monitor each entry and exit into the cabinet.

Seismic In areas prone to seismic activity, earthquake design criteria specify that equipment should remain operational when subjected to tremors. Excessive motion that may cause undue strain on cable or conduit interconnections is not permissible in this environment. State, city and county governments often supplement design and building codes with additional requirements. Also, a licensed structural engineer must certify each installation.

Therefore, special equipment and procedures must often be used in areas of high seismic activity, often labeled Zone 4. CPI offers an assortment of products to stiffen, brace and stabilize racks, cabinets and rack-mounted equipment.

For example, the Seismic Frame® Cabinet has a reinforced steel inner frame to provide structural rigidity. It can withstand an 8.3 Richter scale earthquake, complies with Zone 4 Bellcore GR-63-CORE for Network Equipment Building Systems (NEBS), Section 4.4.1.1, and has a seismic load rating of 800 lb.

Other seismic equipment from CPI includes installation kits to secure your rack or cabinet to the floor, bracing kits to bolt the top of a cabinet to the wall, monitor straps and equipment tie-down kits.

Fast Fact

White Papers
For more information about thermal and power management, read CPI’s White Papers at www.chatsworth.com/whitepapers
Maximize Data Center Cooling

APT wanted a solution that would lower CPU temperatures in a densely packed server environment and provide adequate cooling for additional servers.

**Company:** Bend, Ore.-based Advanced Power Technology (APT) designs, manufactures and markets high-performance power semiconductors for electrical power conversion, control and amplification.

**Situation:** As APT’s data center grew, overheating in existing cabinets became a concern and the company was forced to find alternate cooling sources to lower critical server temperatures.

“We sought a cabinet solution that would remain relatively constant into the future as our data center continued to expand,” says Gary Colton, director of information systems at APT. “Any new cabinet needed to fit easily into the configuration, while maintaining the clean appearance of the data center, and also provide additional functionality like directed cooling.”

**Trying to Stay Cool**
Integrator Accord Telecom & Cable (Accord), selected by APT to drive the project, determined that directing the coldest air available to the most critical point of use would result in a higher heat transfer rate, better cooling and lower CPU temperatures while minimizing any major forklift upgrade to the existing HVAC systems in the main server room. In addition, Accord identified housing equipment at the clean appearance of the data center, and also provide additional functionality like directed cooling.

**“Often, IT decision makers view cabinets and racks as simple boxes. This can be a costly mistake.”**

Todd Hurt, principal of Accord Telecom

**Why CPI:** Once the new heat load was established and an expansion plan designed, APT examined solutions from five vendors.

During the process, CPI introduced its Delphi ECS Enclosure Blower and demonstrated its ability to integrate completely with existing CPI (and other) cabinets. The blower, developed in conjunction with Delphi Corp., lowers cabinet hot spots by delivering cold air from the floor to the server fronts.

**Featured Product**
Dramatically Increase Cabinet Cooling With New Air Dam & Diverter

**Deliver More Cooling**
The Air Diverter allows air to enter directly into the cabinet from under the raised floor and be directed to the most critical point of use — the fan intakes for servers and other mission-critical rack-mounted equipment. This air is typically 7°F cooler than air delivered through a perforated floor tile in the aisle. This temperature difference can produce up to a 28% higher heat transfer rate across heat sinks attached to microprocessors in that equipment.

**Receive More Cooling Benefit**
Both the Air Diverter and the Air Dam will seal the front area of the cabinet from the rear to prevent mixing of heated exhaust air with cool air being delivered at the front of the cabinet. In addition, both will prevent rear door-mounted fans from overdrawning the server fans and pulling the cold air around the equipment.

**Reduce Vertical Hot Spots**
Top-mounted cabinet fans create hot spots in the center of the cabinet or stave small servers toward the top of the cabinets by creating air velocity too high for smaller server fans to capture and pull through the equipment. The Air Dam and Air Diverter, by sealing off the front of the cabinet from the rear of the cabinet, will eliminate the need for top mounted fans in many applications and will maximize the effectiveness of rear door-mounted fans in higher heat-density applications.

**Maximize Your Total Cooling Solution**
Increase the benefits of the Air Dam and the Air Diverter by assuring that bayed cabinets share a side panel and by installing filler panels on the front mounting rails on all unused RMU. CPI’s ECS Enclosure Blower will assist in directing under-floor chilled air into the cold air chimney space in the front of the cabinet. Sealing off cable access ports in floor tiles toward the rear of cabinets will optimize the air delivery capacity throughout the room and improve the overall CRAC efficiency in the room.

For more product information visit, www.chatsworth.com/cabinets.

**Continued on page 12**
Build Your Own System:
Choose a Four-Post Platform

**E-Series ISP Co-Location Cabinet**
(shown without side panel)
The E-Series provides three separate compartments within one unit, ideal for Internet Service Providers or in other environments that need separate, secure equipment compartments for multiple users while maximizing floor space.
- Constructed of high-strength, lightweight aluminum
- 2,000 lb load rating
- Accommodates 19” EIA or 23” rack-mounted equipment
- Available in 84” height and 30” or 36” depths

**Seismic Frame® Cabinet**
(shown as frame only)
Comply with Zone 4 seismic requirements to withstand the stress of an 8.3 Richter scale earthquake. These steel-reinforced cabinets may be necessary to meet building codes in certain geographic areas.
- Constructed of high-strength, lightweight aluminum with steel reinforcement
- 800 lb seismic load rating
- Accommodates 19” EIA rack-mounted equipment
- Available in 84” height and 36” depth

**QuadraRack™ Server Frame**
If security is not an issue, an open four-post mounting system may be an option. The QuadraRack is a cost-effective solution that offers the strength and stability of a cabinet and the easy accessibility of a rack.
- Constructed of high-strength, lightweight aluminum with 14-gauge steel channels
- 1,000 lb load rating
- Square-punched rails
- Accommodates 19” EIA rack-mounted equipment
- Available in 7’ height and 29” depth

**T-Series SteelFrame Cabinet**
(shown as frame only)
The T-Series is CPI’s most affordable freestanding enclosed system. Made of steel instead of aluminum, the T-Series provides an economical solution with the same CPI quality, design, construction and workmanship. The T-Series offers many of the same features as the MegaFrame, making the unit a high-value system for cost-sensitive projects.
- Constructed of welded steel
- 2,000 lb load rating
- Accommodates 19” EIA rack-mounted equipment
- Available in 78” or 84” heights and 23”, 30” or 36” depths

**C-Series SlimFrame™ Cabinet**
(shown without side panel)
The SlimFrame provides the same features as the MegaFrame Cabinet in a smaller 24”-wide footprint. This thinner cabinet matches the typical dimensions of raised-floor tiles for strategic layouts and optimum use of floor space.
- Constructed of high-strength, lightweight aluminum
- 2,000 lb load rating
- Accommodates 19” EIA rack-mounted equipment
- Available in 72”, 78” or 84” heights and 22”, 30” or 36” depths

**M-Series MegaFrame® Cabinet**
CPI’s most popular and award-winning freestanding enclosure offers the most cable management capacity and greatest flexibility — with a variety of options in mounting rails, security and monitoring measures, thermal management and power distribution.
- Constructed of high-strength, lightweight aluminum
- 2,000 lb load rating
- Accommodates 19” EIA or 23” rack-mounted equipment
- Available in a wide range of heights and depths

See Page 13 For Cabinet Options

www.chatsworth.com/cabinets

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Build Your Own System: Support Your Equipment

>> Vertical Mounting Rails
Every CPI Cabinet includes one set of four vertical equipment mounting rails to provide front and rear support for rack-mount equipment. Choose between five styles of mounting rails, which can be easily added or changed at a later time. A scale on the side of the cabinet assists with vertical alignment when adjusting the depth of the rails. Each rack-mount space (RMU) is marked and numbered on the rail, so equipment is placed precisely.

>> LCD Monitor+Shelf
The retractable 2 RMU LCD Monitor+Shelf saves rack space for other equipment. It can be left in the viewable position with the cabinet door closed, which cannot be done with similar combination monitor and keyboard shelves.

>> Keyboard+Tray
The retractable 1 RMU Keyboard+Tray can be positioned separately at a more comfortable user height and includes a touch pad, a separate mouse is not required.

>> Sliding Shelf
Use the 2 RMU, 32” deep, 160 lb capacity Sliding Shelf for equipment that does not mount directly to the rack. The entire shelf extends in front of the mounting rails and cables travel in a hidden flexible cable manager under the shelf.

>> 2,000 lb Caster Kit (MegaFrame® Kit Shown)
Most CPI Cabinets can support 2,000 lb of equipment on or off casters. Caster Kits allow cabinets to be quickly repositioned in the data center or lab. Retractable Stabilizer Kits (not shown) provide anti-tip protection for cabinets on casters.
Build Your Own System:

Provide Cable Management

**Vertical Cable Manager**
CPI Cabinets have integrated cable management space along both sides of the rack-mount space. One Vertical Cable Manager is included with every CPI Cabinet. Adjust the depth of the cable manager to align with equipment and add additional cable managers if required.

**Horizontal Cable Tray**
Horizontal Cable Tray allows side-to-side transition of cable within the cabinet and between adjacent bayed cabinets. Horizontal Cable Tray is attached to the cabinet frame and does not use any rack-mount space. It attaches at the top, middle or bottom depth rail and can be adjusted in depth to match the position of vertical cable managers. Sold in pairs.

**Narrow Enhanced Vertical Cable Manager**
Narrow Enhanced Vertical Cable Manager uses 1 RMU high cable fingers to guide patch and equipment cords into each rack-mount space. A snap-on hinged cover protects cables within the managers. A wide version is also available.

**Front-to-Back Cable Manager**
Route equipment cords front-to-back between two Narrow Enhanced Vertical Cable Managers to interconnect computers and routers with network switches. A wide version is also available.

**19” Horizontal Wire Management Panel**
Place above or below patch panels and network switches to organize patch cords and equipment cords. Use with the Vertical Cable Manager. Cable spools provide a smooth horizontal-to-vertical transition.

**Universal Horizontal Cable Manager**
Place above or below patch panels and network switches. Cable fingers guide patch cords and equipment cords to their connections. A snap-on hinged cover protects cables within the manager. Use with the Narrow Enhanced Vertical Cable Manager.

Sold by:

[www.TWAcomm.com](http://www.TWAcomm.com)
Toll Free: (877) 389-0000
Build Your Own System:
Select Power & Security

>> Vertical Power Strip
Distribute power to multiple pieces of equipment from a single power connection. Vertical Power Strips attach to the side of cabinets using no rack-mount space (0 RMU) and adjust front-to-rear to align with equipment. Available surge-protected and with twist-lock plugs. High-voltage, multi-input, and three-phase models are also available.

>> 19” Rack-Mount Power Strip
Distribute power to multiple pieces of equipment using only one rack-mount space (1 RMU). Available surge-protected and with twist-lock plugs. High-voltage, multi-input, and three-phase models are also available.

>> Digilock® Electronic Keypad Lock
The Digilock is a completely self-contained, fully-programmable keypad lock. Each lock can be opened with either a User Code and/or an electronic key. Locks are battery operated, no need for wiring. Optional software provides audit trails and programming options.

>> Power Distribution Unit
Power Distribution Unit (PDU) divides a single high power connection into multiple circuits. Connect multiple power strips or high-power equipment to the PDU.

>> External Battery Pack For Enterprise UPS
Extend the runtime of equipment in the event of a power failure by adding External Battery Packs to the Enterprise UPS. Batteries have independent chargers to reduce recharge time.

>> Enterprise UPS by MINUTEMAN®
UPSes are an essential component of every power solution because they correct power problems and provide battery power in the event of a power failure. The Enterprise UPSes can be monitored through a serial connection to a server using the included software or made network addressable with an optional SNMP card.
Build Your Own System:  

*Provide Thermal Management*

**>> Intelligent Fan Door**
Rack-mount computer and data storage equipment exhaust heated air into the rear of the cabinet. Replace the High-Flow Perforated Metal Door with Intelligent Fan Door to actively remove heated air from the cabinet. Intelligent Fan Door uses temperature sensing variable speed fans that increase airflow as the temperature of the air rises.

**>> Delphi® ECS Enclosure Blower**
Use in combination with Air Dam Kit or Air Diverter Kit to increase airflow at the front of the cabinet. Delphi ECS Enclosure Blower pushes air from the bottom of the cabinet or the plenum space below the raised floor up the front of the cabinet.

**>> Air Diverter Kit** (not shown)
Air Diverter Kit seals the space between the front door and the front of equipment within the cabinet and directs cool air from the base of the cabinet to the space between the door and equipment. Use Air Diverter Kit to improve cooling efficiency when cool air is delivered through a raised floor directly into the bottom of the cabinet. Use filler panels in open rack-mount spaces and a solid front door.

**>> High-Flow Perforated Metal Door**
High-Flow Perforated Metal Door provides the security of a solid metal door with 63% airflow. Use High-Flow Perforated Metal Door on the front or rear of cabinets to encourage front-to-rear airflow through rack-mount equipment.

**>> Air Dam Kit**
Air Dam Kit seals the space between the front door and the front of equipment within the cabinet. Use Air Dam Kit to improve cooling efficiency when cool air is delivered through a raised floor into a cool aisle at the front of the cabinet. Use filler panels in open rack-mount spaces and a High-Flow Perforated Door.

Part Numbers On Pages 11-12
Ordering Information

On this page, you can find part numbers for all the solutions you’ve seen in this brochure; however, this page does not provide a complete list. For example, all part numbers indicate black products. Other colors and choices are available. Please refer to the CPI Mini-Catalog, call Technical Support at 800-834-4969 or visit www.chatsworth.com for complete ordering information.

Build Your Own System: Choose a Four-Post Platform (Page 6)

FOUR-POST PLATFORMS

<table>
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<tr>
<th>M-Series MegaFrame® Cabinet System (2,000 Load Rating)</th>
<th>Vertical Cable Manager</th>
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<tr>
<td>M1030-712: 19&quot;W x 84&quot;H x 30D, 45 RMU, #12-24 tapped rails, includes top and sides, plexiglass front door/metal rear door, assembled</td>
<td>Vertical Cable Manager</td>
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<tr>
<td>M1054-732: 19&quot;W x 84&quot;H x 36D, 45 RMU, square-punch rails, includes top, no sides, vented plexiglass front door/perforated metal rear door, assembled</td>
<td>Vertical Cable Manager</td>
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<td>M1045-742: 19&quot;W x 84&quot;H x 36D, 45 RMU, square-punch rails, includes top and sides, perforated metal front door/perforated metal rear door, assembled</td>
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<tr>
<td>M1032-702: 19&quot;W x 84&quot;H x 30D, 45 RMU, #12-24 tapped rails, no doors, top or sides, assembled</td>
<td>Vertical Cable Manager</td>
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</table>

C-Series SlimFrame Cabinet System (2,000 Load Rating)

| C1053-732: 19"W x 84"H x 36D, 45 RMU, square-punch rails, includes top and sides, vented plexiglass front/perforated metal rear | Vertical Cable Manager |
| C1054-742: 19"W x 84"H x 36D, 45 RMU, square-punch rails, includes top, no sides, perforated metal front door/perforated metal rear door | Vertical Cable Manager |

T-Series SteelFrame Cabinet System (2,000 Load Rating)

| T2033-732: 19"W x 84"H x 30D, 45 RMU, square-punch rails, includes top and sides, vented plexiglass front door/perforated metal rear door, assembled | Vertical Cable Manager |
| T2033-742: 19"W x 84"H x 30D, 45 RMU, square-punch rails, includes top and sides, perforated metal front door/perforated metal rear door, assembled | Vertical Cable Manager |
| T2032-702: 19"W x 84"H x 30D, 45 RMU, #12-24 tapped rails, no tops, sides or doors | Vertical Cable Manager |

E-Series ISP Co-Location Cabinet System (1,600 Load Rating)

| E3053-732: 19"W x 7"H x 36D, 3 x 13 RMU, includes two side panels, fan and custom-keyed locks, vented plexiglass front doors/perforated metal rear door, assembled | Vertical Cable Manager |
| E3055-732: 19"W x 7"H x 36D, 3 x 13 RMU, includes one side panel custom-keyed locks, vented plexiglass front doors/perforated metal rear door, assembled | Vertical Cable Manager |

Seismic Frame® Cabinet System (800 Seismic Load Rating)

| 11972-712: 19"W x 7"H x 36D, 43 RMU, includes top and sides, plexiglass front door/metal rear door | Vertical Cable Manager |
| 11973-712: 19"W x 7"H x 36D, 43 RMU, includes top, no sides, plexiglass front door/metal rear door | Vertical Cable Manager |
| 11973-702: 19"W x 7"H x 36D, 43 RMU, includes top, no sides, no doors | Vertical Cable Manager |
| 11974-702: 19"W x 7"H x 36D, 43 RMU, no top, no sides, no doors | Vertical Cable Manager |

QuadraRack® Server Frame (1,000 Load Rating)

| 15053-703: QuadraRack Server Frame, 19"W x 7"H x 29D, 45 RMU | Vertical Cable Manager |

Build Your Own System: Support Your Equipment (Page 7)

EQUIPMENT SUPPORT

Upgraded Caster Kits

| 13203-001: Caster Kit, MegaFrame Cabinet, 2000 lb Load Rating | Vertical Cable Manager |
| 13204-001: Caster Kit, SlimFrame Cabinet, 2000 lb Load Rating | Vertical Cable Manager |
| 13205-001: Caster Kit, SteelFrame Cabinet, 2000 lb Load Rating | Vertical Cable Manager |

Shelves

| 12380-719: LCD Monitor+Shelf, 4-Post, 19"W x 2 RMU, includes Monitor | Vertical Cable Manager |
| 13480-719: Keyboard+Tray, 4-Post, 19"W x 1 RMU, includes Keyboard | Vertical Cable Manager |
| 11914-719: Sliding Shelf, 19"W x 2 RMU x 32D, 100 lb Load Rating, for Cabinets 36” or 39”D | Vertical Cable Manager |
| 11913-719: Sliding Vented Shelf, 19"W x 2 RMU x 32D, 160 lb Load Rating, for Cabinets 36” or 39”D | Vertical Cable Manager |
| 12610-719: Fixed Vented Shelf, 19"W x 1 RMU x 20”-36”D (telescoping depth), 100 lb Load Rating | Vertical Cable Manager |

Vertical Mounting Rails (One set of four included with each cabinet)

| 12630-707: Multi-Mount Square-Punched Rails, 84”H Cabinet | Vertical Cable Manager |
| 12469-707: Tapped 12-24 Rails, 84”H Cabinet | Vertical Cable Manager |
| 11812-701: Sun® Equipment Mounting Rails, 84”H Cabinet | Vertical Cable Manager |
| 11953-700: IBM® eServer pSeries Server Mounting Rails, 84”H Cabinet | Vertical Cable Manager |
| 12468-700: HP® Servers Mounting Rails, 84”H Cabinet | Vertical Cable Manager |

Build Your Own System: Select Power & Security (Page 9)

POWER

19” Rack-Mount Power Strips

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Vertical Mount Power Strips

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Continued on next page.
Below are M-Series MegaFrame® selections. Most of these are available on many of our cabinets. For more details or for ordering information, visit www.chatsworth.com or call 800-834-4969.

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<td>3</td>
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</tbody>
</table>

**1st Digit**
How wide is your equipment mounting requirement?

**2nd Digit**
How tall of a cabinet do you require? 48" available in 24", 30" & 36" depth. Also, it is not available in reusable shipping carton.

**3rd Digit**
How deep is your equipment mounting requirement?

**4th Digit**
What type of cabinet style and mounting rails does your equipment require?

**5th Digit**
What color panels? Mounting rails and cable managers will be the same color as your panels.

**6th Digit**
What kind of doors best fit your application?

- Perforated Metal
- Solid Plexiglass
- Vented Plexiglass
- Solid Metal

**7th Digit**
How do you want the cabinet packaged for shipping?

---

**Multi-Mount™ (Square-Punched) Mounting Rails**
Ideal for mounting servers, these rails accommodate all types of cage nuts as well as traditional #12-24 screws for switches and patch panels giving you ultimate mounting flexibility. You keep the same cabinet and mounting system even if you change servers in the future. Available for all CPI cabinets. Rails include (25) #12-24 cage nuts and screws plus (16) M6 cage nuts and screws.

**Tapped 12-24 Rails**
Tapped 12-24 rails provide the easiest installation of patch panels, shelves, cable managers and other products that use simple through-holes in their mounting flanges. Rails include (50) #12-24 pilot-point screws.

**HP® Rails**
HP rails support any HP server but are required for "L"- and "N"-class servers. Not available for Seismic Frame, T-Series SteelFrame or E-Series ISP Co-Location Cabinets. HP Rails include (25) M-5 cage nuts and screws and (8) 5/16 - 18 hex nuts.

**Sun® Rails**
This three-piece system for Sun’s unique side-mounting servers features a pair of Z-shaped rails. Not available for Seismic Frame, T-Series SteelFrame or E-Series ISP Co-Location Cabinets. Mounting hardware sold separately.

**IBM® Rails**
These specialty rails feature round mounting holes to accommodate the bullet-shaped pegs of the IBM® eServer pSeries. Not available for T-Series SteelFrame or E-Series ISP Co-Location Cabinets. Mounting hardware sold separately.

**Double Doors (optional)**
Double Doors use less aisle space when open, allowing technicians and equipment carts easy access to rack space being serviced. Also, narrower aisles can be planned since the doors are half as wide as standard doors. In small telecommunications rooms, Double Doors and casters can be combined to allow "roll-forward/roll-backward" access to equipment. Available individually or preinstalled on new Megaframe® and SlimFrame® Cabinets.

**Electronic Locking Systems (optional)**
Enhance equipment security with two types of electronic locking systems: one for simple, standalone use and the other with networking capabilities to open multiple cabinets simultaneously with a single lock. Available preinstalled on Megaframe® Family of Cabinet Systems. To order, you must call Technical Support at 800-834-4969.
Ordering Information continued

Build Your Own System: Select Power & Security (Page 9) continued

### UNINTERRUPTIBLE POWER SUPPLIES

Enterprise UPS By Minuteman

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Load</th>
<th>Voltage</th>
<th>Internal Batteries</th>
<th># of Outlets</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VA</td>
<td>Watts</td>
<td>Amps</td>
<td>Type</td>
<td>UPS</td>
</tr>
<tr>
<td>12450-1050</td>
<td>500</td>
<td>300</td>
<td>12.3</td>
<td>1</td>
<td>2</td>
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<td>12450-0775</td>
<td>750</td>
<td>490</td>
<td>11.5</td>
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230V – 30 Amp UPS (Additional plug options, Amp ratings, 250V ratings and IEC receptacles available)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Load</th>
<th>Voltage</th>
<th>Internal Batteries</th>
<th># of Outlets</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>VA</td>
<td>Watts</td>
<td>Amps</td>
<td>Type</td>
<td>UPS</td>
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<tr>
<td>12451-230</td>
<td>1380</td>
<td>9.6</td>
<td>23.5</td>
<td>4</td>
<td>12VDC 12Ah</td>
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<tr>
<td>12451-2320</td>
<td>1920</td>
<td>5.4</td>
<td>13.9</td>
<td>4</td>
<td>12VDC 12Ah</td>
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**External Battery Pack For Enterprise UPS**

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<thead>
<tr>
<th>Part Number</th>
<th>Maximum Load</th>
<th>Voltage</th>
<th>Internal Batteries</th>
<th># of Outlets</th>
<th>Shipping Weight</th>
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<tbody>
<tr>
<td></td>
<td>VA Watts</td>
<td>Amps</td>
<td>Type</td>
<td>UPS</td>
<td>Surge</td>
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<tr>
<td>12460-001</td>
<td>120</td>
<td>120</td>
<td>1</td>
<td>12VDC 3Ah</td>
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<tr>
<td>12460-002</td>
<td>220</td>
<td>120</td>
<td>1</td>
<td>12VDC 7Ah</td>
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**MN Series UPS By Minuteman**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Voltage</th>
<th>Internal Batteries</th>
<th># of Outlets</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VA Watts</td>
<td>Amps</td>
<td>Type</td>
<td>UPS</td>
</tr>
<tr>
<td>12466-032</td>
<td>325</td>
<td>185</td>
<td>10 A</td>
<td>120</td>
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<tr>
<td>12466-052</td>
<td>525</td>
<td>275</td>
<td>12 A</td>
<td>120</td>
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**POWER DISTRIBUTION UNIT**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Overall Height</th>
<th>Volt/Amp</th>
<th># of Outlets</th>
<th>Plug Type</th>
<th>Surge Protected</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>13299-005</td>
<td>1 RMU</td>
<td>120/24</td>
<td>12</td>
<td>Twist-Lock</td>
<td>Yes</td>
<td>Yes</td>
<td>11 lb</td>
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<tr>
<td>13299-002</td>
<td>1 RMU</td>
<td>240/24</td>
<td>12</td>
<td>Twist-Lock</td>
<td>Yes</td>
<td>Yes</td>
<td>11 lb</td>
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**THERMAL**

**Delphi ECS Enclosure Blower**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Type</th>
<th>Surge</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12900-001</td>
<td>Delphi ECS Enclosure Blower, 19&quot; Rack-Mount, 2 RMU, 29°F, 250 CFM</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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<tr>
<td>12919-001</td>
<td>Filter Kit For Delphi ECS Enclosure Blower</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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<tr>
<td>12729-001</td>
<td>Foam Gasket Kit For Delphi ECS Enclosure Blower</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
</tr>
<tr>
<td>12729-003</td>
<td>Blower Duct For Delphi ECS Enclosure Blower</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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**Cabinet Airflow Baffles**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Type</th>
<th>Surge</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>13336-710</td>
<td>Air Dam Kit, 5’D, Includes Top, Bottom and Side baffles</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
</tr>
<tr>
<td>13337-710</td>
<td>Air Diverter Kit, 5’D Baffles, Includes Top, Bottom, Side Baffles and Bottom Diverter Tray</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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</table>

**Intelligent Fan Doors**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Type</th>
<th>Surge</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>13212-710</td>
<td>Fan Door, MegaFrame, 19” W x 7’ H, 8 Fans, 12 VDC, 72 Amp (Max), Solid State Temperature Controls</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
</tr>
<tr>
<td>13222-710</td>
<td>Fan Door, MegaFrame, 19” W x 7’ H, 8 Fans 100 CFM each, 115 VAC, 19Amp at 60 Hz</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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**Top-Mounted Fan Kit**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Type</th>
<th>Surge</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
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</thead>
<tbody>
<tr>
<td>12480-701</td>
<td>Fan Kit, 115 VAC, 15 Amp, Black Only (use with solid door options)</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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</table>

**Filler Panels**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Type</th>
<th>Surge</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>30024-702</td>
<td>Filler Panel, 3/16&quot; Thick x 19&quot;W x 2 RMU</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
</tr>
<tr>
<td>30024-703</td>
<td>Filler Panel, 3/16&quot; Thick x 19&quot;W x 3 RMU</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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</table>

**Doors**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Type</th>
<th>Surge</th>
<th>Circuit Breaker</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>14032-710</td>
<td>High-Roof Perforated Metal Door for MegaFrame and Seismic Frame Cabinets</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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<tr>
<td>12882-710</td>
<td>High-Roof Perforated Metal Door for SlimFrame Cabinets</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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<tr>
<td>12884-710</td>
<td>High-Roof Perforated Metal Door for SteelFrame Cabinets</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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<tr>
<td>30372-710</td>
<td>Double Doors, High-Roof Perforated Metal Door for MegaFrame and Seismic Cabinets</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
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<tr>
<td>30382-710</td>
<td>Double Doors, High-Roof Perforated Metal Door for SlimFrame Cabinets</td>
<td>29°F</td>
<td>2</td>
<td>175</td>
<td>2</td>
<td>Yes</td>
<td>175 lb</td>
</tr>
</tbody>
</table>

Success Story continued

APT purchased four Delphi ECS Enclosure Blowers and filler panels to close cabinet fronts and maximize cooling, and three MegaFrame cabinets. During the installation, Accord retrofitted existing cabinets with the blowers. The installation required a slight modification to the enclosure blowers, so they would fit in the 30”-deep cabinets.

When the storage area network and a new blade server were installed, however, the 30”-deep cabinet was being stretched to capacity. CPI provided 7”-deep cabinet extensions, which avoided the need to replace the cabinets and allowed APT to standardize on the 30”-deep cabinets to maintain a symmetrical footprint in the data center.

In the APT data center, structural wiring is separated from the server cabinets. The enclosed CPI cabinets with the blowers house the servers, and two CPI relay racks are used for wiring. The cabling includes CAT 3, UTP voice, CAT 5 legacy, and AMP CAT 5e 350-MHz UTP/62.5/125, 10/125 optical cable and 200-pair CAT 3. A 4,000-foot underground fiber/copper backbone infrastructure (single mode and multimode) connects the remaining campus with the data center.

The network serves about 400 users. The entire process, from research to installation, took about six weeks to complete. The approximate cost of the cabinets, enclosure blowers, special orders and installation was less than $25,000. APT’s HVAC system, combined with CPI’s enclosure blower and high-flow perforated metal doors, created a 14-degree centigrade reduction in CPU temperatures.

With the blower solution, APT has been able to extend CPU life through consistent cooling, and, at the same time, prevent system failures due to overheating.

Out of the Box

“Often, IT decision makers view cabinets and racks as simple boxes,” says Todd Hurt, principal of Accord Telecom. “This can be a costly mistake. Making careful decisions when selecting cabinet hardware can save significant money in terms of performance, longevity and expansion.”

Cabinets are often the most important component in the design of a data center and must be selected with growth in mind, Colton adds. A cabinet/rack solution must be able to adapt and meet the changing environment of an evolving server room in order to preserve symmetry, consistency and longevity of the ROI on the original purchase.
As the leading provider of structural support systems, CPI delights you with:

**Quality Products**
- A Total System Solution
- Standards-Compliant
- UL Listing and Certification
- Numerous Patent Awards
- Heavy-Duty Packaging

**Quality Services**
- Free Layout Services
- Detailed Drawings
- Bill of Materials
- Custom Products
- Online Design Tools

**Quality People**
- Motivated Employee-Owners
- Knowledgeable Salespeople
- Customer Service & Technical Support
- Distributor and Contractor Partners

The CPI Total Solution Includes:

- Equipment Support
- Cable Management
- Cable Pathways
- Grounding & Bonding
- Security & Monitoring
- Thermal Management
- Power Distribution
- Seismic Bracing

Find more information about CPI Freestanding Cabinets at
www.chatsworth.com/cabinets
800-834-4969
technicalsupport@chatsworth.com