



CHATSWORTH
PRODUCTS

Data Center Solutions



[chatsworth.com](https://www.chatsworth.com)

Powering and Protecting Technology Starts Here

In an interconnected world, where organizations use a mix of enterprise-owned and cloud-based services, managing assets and white space remotely has become increasingly important. Chatsworth Products' (CPI) holistic, cabinet-centric approach to the data center simplifies operation, costs and labor, and allows for future expansion.

Since 1991, CPI has provided innovative infrastructure solutions that surpass industry standards in quality, flexibility, customization, and ease of use. Our commitment to work with data center professionals to provide unique solutions and unparalleled support has resulted in optimized data centers that meet the high efficiency standards of today and tomorrow.

Availability, Efficiency and Scalability

CPI's cabinet ecosystem combines intelligent power distribution, remote power and environmental monitoring, access control and system optimization with integrated airflow management and enhanced cable management into one of the industry's strongest cabinets. This cabinet-level approach allows you to fully utilize each square foot of space— providing both a near-term payback and long-term capacity to grow.

Customization and Fast Deployment

Data center professionals are required to meet or exceed the needs of their clients, as well as adhere to industry standards and codes. CPI's extensive experience in data center design has resulted in specialized cabinets to meet unique needs such as seismic environments, side airflow optimization, high densities, and heavy-duty cabinets for shipping fully integrated with equipment. Additionally, CPI's consultative design approach includes helping you select and configure the right solutions for your site.

Upgrade and Retrofit

Continuous, automated power and environmental monitoring, and disciplined airflow management are the best tools to control cost and manage assets at the cabinet-level. Intelligent power distribution units (PDUs) and standalone electronic locking solutions bring remote power and environmental monitoring to your site while helping you comply with cybersecurity regulations. Aisle containment strategies increase efficiency and scalability in both brownfield and greenfield applications when cabinet-level isolation is untenable. Developed with built-in flexibility and high-quality engineering, CPI Air Containment Solutions easily adapt to challenges such as limited ceiling height and complex overhead pathways.

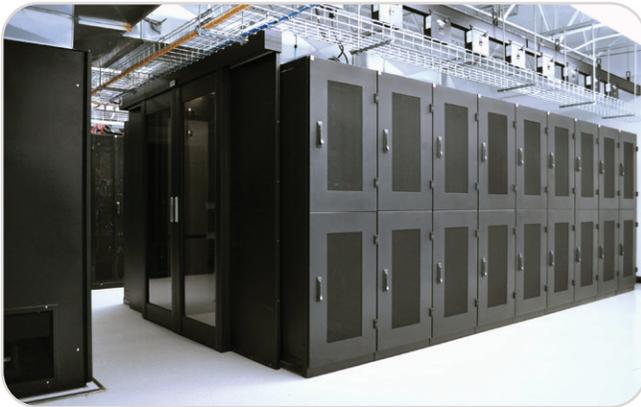


CPI Data Center Applications



Cloud/Hyperscale

CPI offers a robust solution for systems integrators, including factory installation of accessories to speed deployment, simplify logistics and reduce packaging in a cabinet solution designed for high load-bearing capacity to safely transport equipment.



Colocation/Multitenant Data Centers (MTDC)

Select CPI to support continuous uptime and to provide remote monitoring, asset management and security. Take advantage of the ability to trend power capacity over time to help forecast power consumption more accurately. Use power charge back reporting to closely control power consumption expenses. Remotely control access to cabinets and remotely control power to individual outlets to reduce remote hands charges. Cabinet solution designed for high load-bearing capacity to safely transport equipment.



Design It!

Take advantage of CPI's design engineering expertise and customize a complete solution under one part number.



Micro Data Centers

CPI provides innovative infrastructure solutions that are ideal for micro data centers. These compact yet powerful data centers are essential for real-time data processing, and CPI's products, including robust cabinets, efficient power distribution units, and advanced cable management systems, are designed to optimize space and ensure reliability. With solutions that offer scalability, security, and efficient cooling, CPI helps ensure that edge computing environments perform seamlessly, even in challenging or confined locations.

CPI Cabinet System

Effectively protecting and powering technology starts with CPI's ZetaFrame® Cabinet System that uses a modular, holistic approach to integrate cable management, thermal management, power management, environmental monitoring, and access control—all working together as a single-vendor turnkey platform that supports increasing power densities while reducing costs and optimizing efficiency, availability, security, and scalability for evolving enterprise-owned, multi-tenant, cloud hyperscale, and edge data centers.

Manage Power with Intelligence

Monitor and control power down to the individual device with CPI's eConnect® PDUs.

- Rated to withstand high temperatures
- Secure Array® IP Consolidation links 48 PDUs under a single IP connection
- Outlet-level monitoring and switching
- Branch circuit monitoring ensures power availability and prevents overcurrent.
- High power configurations for up to 57.5 kW

Monitor Environment Proactively

Ensure your equipment is safe from critical environmental conditions with CPI's environmental sensors and probes.

- Measure and track inlet and outlet temperature, and inlet humidity at each rack/cabinet
- Automatically monitor and set alarm thresholds to prevent hot spots
- Integrate environmental monitoring with intelligent PDUs to reduce hardware, networking and software costs
- DCIM software aggregating power, environmental, and physical security measurements into a user-friendly dashboard to ensure site optimization and capacity planning

Protect Equipment Electronically

Protect critical equipment and data with CPI's effective, yet simple, electronic access control solutions.

- Remotely control cabinet access attempts through a user-friendly web interface
- Keep audit trails for regulatory compliance
- Networked locks can be powered and networked through eConnect PDUs, or a standalone solution

Optimize Your System Remotely

Visualize trends of all activities in the room and cabinet in a single screen with CPI's simple, yet robust, Power IQ® for eConnect DCIM software.

- Data charting of trends provides immediate status and insight into utilization
- Power capacity trend analysis provides estimated lifespan
- Power charge back reports allocate power use by equipment, rack or customer
- Failover reports ensure load balancing and available power on A and B circuits



Support Equipment with Strength

Secure and protect critical equipment in high-density environments with ZetaFrame® Cabinet.

- Sturdy, deep design
- Supports power, cable and airflow management accessories
- 5,000 lb (2,268 kg) static load ratings and 4,000 lb (1814 kg) dynamic load rating
- Optimal space utilization



Control Airflow with Efficiency

Enhance data center efficiency and reduce energy consumption with CPI Thermal Management Solutions:

- Air containment solutions optimize airflow, reduce energy-intensive cooling, and minimize on-site modifications by isolating cold air and sealing hot air pathways
- Advanced cooling solutions address AI, ML, and HPC demands with ZutaCore®'s HyperCool® waterless, direct-to-chip cooling, providing 100% heat reuse, reduced power consumption, and zero data center disruption



Organize Cables with Flexibility

CPI's cabinets include specific and physically separate pathways for power and network cables, and mounting locations for PDUs.

- Ensures network integrity with minimal airflow interference
- Allows intuitive bundling and easy attachment of cables



Simplify Operations with a Single-Vendor Solution

Easily order CPI cabinets, eConnect PDUs, airflow and cable management accessories preinstalled for quick, simple deployment from a single vendor.

- Enhance supply chain resilience, ensure timely access to resources, and improve procurement processes by leveraging strong vendor partnerships



Thermal Management

CPI's industry-leading thermal management solutions are an integral part of the ZetaFrame® Cabinet System for effectively reducing heat and protecting equipment. Airflow management accessories and Air Containment solutions, such as aisle containment and vertical exhaust ducts, fully integrate with the ZetaFrame Cabinet. The system also seamlessly integrates with advanced cooling solutions, including direct-to-chip liquid cooling and rear door exchangers, to efficiently manage extreme power densities in high-performance computing environments.



- The approach to thermal management should be dictated by the specific heat load and operational needs of the data center.
- High-performance computing demands are increasingly supported by hybrid cooling solutions that combine air containment and liquid cooling, with liquid cooling added to manage higher densities and address thermal hotspots.

CPI's range of air containment solutions like the Elevate™ Adjustable Containment Solution, Build to Spec (BTS) Kit, Cabinet Supported Cold Aisle Containment (CAC), and the Vertical Exhaust Duct for the ZetaFrame® Cabinet System enhance cooling efficiency and reduce energy costs by optimizing airflow through creating closed hot air return systems, isolating cold air supply, and providing sealed pathways for hot air exhaust. This eliminates energy-intensive cooling systems and reduces the need for on-site modifications.

In partnership with ZutaCore®, CPI is advancing liquid cooling technologies to address the demands of modern processors in AI, ML, and high-performance computing (HPC) environments. ZutaCore's HyperCool® technology is a waterless, direct-to-chip liquid cooling solution that moves heat away from processors. It delivers 100% heat reuse, reduced power consumption, and zero disruption to data center operations.

How Do You Benefit from CPI's Data Center Solutions?

Standardization and Rapid Deployment

- Customize a solution to meet unique applications
- Enable easy ordering and delivery with a factory-assembled cabinet solution
- Increase confidence with pre- and post-sale services, industry-leading warranties and more

Site Optimization and Regulatory Compliance

- Simplify operations with the ability to discover and centrally manage all supported equipment
- Optimize key performance metrics such as Power Usage Effectiveness (PUE), power capacity planning and reporting
- Reduce network connection cost using CPI's Secure Array® IP Consolidation technology
- Provide a single integrated system for power management, environmental monitoring and physical security



Reduced Cooling Costs

- Reduce energy consumption and improve cooling efficiency
- Increase compute density by >100kW per rack
- Design for future growth
- Minimize environmental impact and support green initiatives
- Seamlessly integrate into CPI's innovative ZetaFrame® Cabinet System

Maximized Space Utilization

- Deploy the latest servers, storage and networking equipment from leading manufacturers





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Manufacturing Capability and Global Availability

Headquartered in the United States, CPI operates from multiple sites worldwide, including offices in Mexico, Canada, China, the Middle East and the United Kingdom. CPI's manufacturing facilities are located in the United States, Asia and Europe.

Standard products are readily available through a global network of industry-leading distributors. With stock availability, and CPI's consistently short factory lead times, you can be assured that CPI solutions will be accessible to meet your project scheduling needs.

How to Buy

CPI sales are conducted in partnership with a global network of distributors, contractors and resellers to ensure a high level of stock availability. Use CPI's Online Catalog to place an order with a distributor near you. Go to chatsworth.com to learn more.

About CPI

CPI, a 100% employee-owned company, was founded in June 1991, when 90 workers joined together and purchased the Dracon Division of Harris Corporation using an Employee Stock Ownership Plan (ESOP). Employee ownership is central to the success of CPI. Employee owners are committed to a philosophy of quality through teamwork, caring and commitment, which are extended to customers through our solutions and services.



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