



CHATSWORTH  
PRODUCTS

# Optimizing Semiconductor Facilities: Energy Efficiency, Compliance, and Thermal Management

Achieve Precision, Sustainability,  
and Scalability in Semiconductor  
Manufacturing

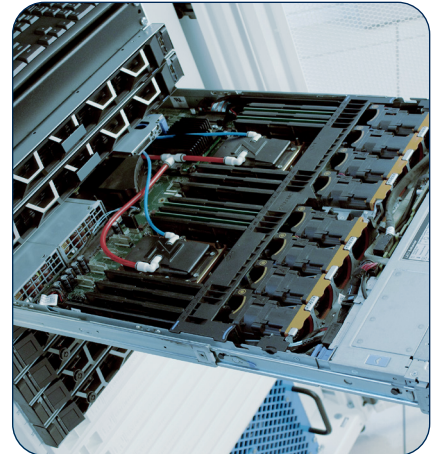
In the semiconductor industry, operational efficiency and sustainability are essential for keeping up with the rapid pace of innovation. From meeting stringent cleanroom standards to reducing energy consumption, manufacturers face unique challenges that demand customized, forward-thinking solutions. Chatsworth Products (CPI) provides the expertise and technology to meet these needs while ensuring long-term scalability and reliability.



## Driving Energy Efficiency with Advanced Thermal Management

Energy demands in semiconductor manufacturing are rising, but CPI's innovative solutions can help reduce your facility's energy footprint without compromising performance.

- **Direct-to-chip liquid cooling systems** to efficiently dissipate heat in high-power environments.
- **Advanced airflow containment systems** designed to optimize cooling in cleanroom environments.
- **Intelligent power distribution units (PDUs)** for precise power management, minimizing waste and maximizing uptime.



## Supporting Compliance for Cleanroom and FAB Environments

Semiconductor manufacturing requires adherence to strict cleanliness and operational standards. CPI's solutions are designed with these demands in mind:

- Enclosures with **low off-gassing finishes** to support cleanroom integrity.
- **Electrostatic discharge (ESD) protection systems** to prevent contamination and protect sensitive components.
- Solutions suitable for **environmental compliance** and operational efficiency.



## Accelerating Time-to-Market with Modular Solutions

Speed and flexibility are critical in today's competitive semiconductor market. CPI's modular and scalable solutions enable faster deployment while ensuring long-term adaptability.

- **Modular systems** for rapid assembly and configuration.
- **Scalable infrastructure** to accommodate evolving facility needs.



## The CPI Advantage

With decades of expertise and a commitment to innovation, CPI delivers infrastructure solutions tailored to the semiconductor industry. From cutting-edge thermal management to compliance-driven designs, CPI helps you meet the demands of today's market while positioning your facility for future success.

## Discover How CPI Can Support Your Goals

**Download this brochure to learn more about:**

- How to integrate energy-efficient systems into your facility.
- Key considerations for compliance and operational excellence.
- Real-world examples of CPI's impact in semiconductor manufacturing.