

# Mechanical Systems Division

## Design and Manufacturing



SANMINA

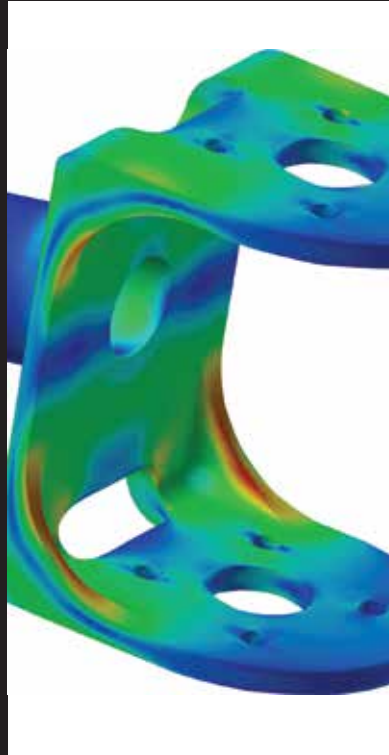
# Design, Engineering and NPI

Sanmina provides integrated design and manufacturing solutions for enclosure fabrication, precision machining, welded frames and complete systems integration. Services include turnkey design, prototyping and DFX.



## Design & NPI Through Engineering Expertise

Customers shorten the time to take a product from concept to production by leveraging Sanmina's mechanical design expertise. Our experienced engineers are located in multiple design centers and have decades of experience in enclosure, precision machining, welded frame and systems design.



## Engineering Services

Customers achieve higher quality & more cost effective designs using Sanmina's engineering services including:

- Structural & thermal analysis
- VAVE, DFM, design for cost
- Product integrity
- Interconnect & cables
- Documentation & change management
- Static & dynamic test support



## World's Most Ruggedized Rack

Customers can accelerate time to market using Sanmina's modular enclosure platform. Configurable pre-engineered building blocks are combined to simplify and expedite the development process. Custom designs for specific customer applications are optimized for efficient manufacturing.

**SANMINA DESIGNS THE WORLD'S MOST RUGGEDIZED ENTERPRISE RACKS**

# State of the Art Equipment

Ongoing investment in the latest technologies including 5-axis machining, multi-function laser/punch systems, robotic welding & automated material handling provides Sanmina's customers with the best metal fabrication solutions available.



## **Manufacturing Services**

Sanmina provides precision machining, welding, metal fabrication and systems integration services for some of the worlds most complex systems.

## **Standard Equipment Set**

Equipment & processes are standardized around the world to facilitate easy transfer of products & best practices between facilities. Sanmina utilizes a proprietary real-time SPC data analysis system integrated directly into CNC machines to ensure reliable process control.

## **One IT and Quality Management System**

Our IT and quality management system are developed centrally, deployed in all facilities and audited independently. This ensures consistency of results and efficiently leverages of best practises in all locations.

**1.5M+ SQUARE FEET OF MANUFACTURING SPACE**



# Expertise in Capital Equipment, Semiconductors, Medical, Industrial, and Avionics Market Segments

Sanmina provides precision machining, enclosure fabrication, complex welding, and electronics manufacturing services. We assemble and test complex electromechanical systems for leading capital equipment suppliers.



**Complex Industrial Systems**



**Robotic Surgical Systems**



**Semiconductor Vacuum Systems**



**Power Systems and Inverters**

# Design & Manufacturing Self-Service Kiosks, Smart Lockers, Telecommunications, Enterprise & Cloud Computing

Sanmina provides fully integrated design & manufacturing services for a variety of electronic assemblies & systems in applications including self-service kiosks, smart lockers, data center and telecommunications systems.



**Self-Service  
Kiosk**



**Smart Locker  
Systems**



**Telecoms and  
Data Center**

# SANMINA WORLDWIDE



## **NORTH AMERICA**

2700 North First Street  
San Jose, CA 95134  
Phone: +1.408.964.3500

## **EUROPE & MIDDLE EAST**

Lerchenstrasse 1  
91710 Gunzenhausen  
Germany

## **GREATER CHINA**

Kader Industrial Building, 5th Floor  
22 Kai Cheung Road  
Kowloon Bay, Hong Kong

## **SOUTHEAST ASIA**

No 2, Chai Chee Drive  
Singapore 469044  
Singapore

## **ABOUT SANMINA CORPORATION**

Sanmina Corporation is a Fortune 500 company and a leading global provider of integrated manufacturing solutions, components, products, repair, logistics and after-market services. Recognized as a technology leader, Sanmina provides end-to-end manufacturing solutions, delivering superior quality and support to Original Equipment Manufacturers (OEMs) primarily in the communications networks, cloud solutions, medical, defense and aerospace, industrial and automotive segments. Sanmina has facilities strategically located in key regions throughout the world.

For more information, visit [www.sanmina.com](http://www.sanmina.com)

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