



SANMINA

## Design & JDM

## Leadership in Electronic and Optical Product Design



## Carrollton, Texas



The Sanmina Carrollton, Texas design center as part of the global RF, Optical and Microelectronics engineering team, partners with some of the world's most innovative high-technology companies to design complex product solutions. With experience in system architecture, optical design, mixed-signal circuit design, micro-electronics,

firmware, reliability and mechanical engineering, Sanmina Carrollton provides a wide-range of design capabilities to companies in the telecommunications, computing, automotive, transportation, oil & gas, medical, instrumentation, optical sensing, industrial and clean technology sectors. We enhance the design services by also offering supply chain development, component engineering, process development, test development, design-to-cost, and New Product Introduction (NPI). Our Carrollton facility manages all aspects of support during manufacturing, including product and process cost-reduction, redesign for component obsolescence, HALT/HASS, sustaining engineering and documentation management. With decades of product design and manufacturing experience, we reduce costs and development time while improving reliability and product deployment. With Sanmina, you always retain all rights to your product IP.

# Sanmina Worldwide



## Manufacturing Capabilities

- Full-Service, Microelectronic Assembly & Test
- Complex Optical Alignment & Assembly
- Specialty and High-Density Fiber Splicing and Management
- Complex Fiber Connectorization, Custom Packaging, Flex Circuit and Backplane Technologies
- Precision Automated SMT Assembly from 0201 to Flip Chip
- System-Level Integration, Box Build and Test
- Value-Add/Value Engineering (VA/VE) Services

## Testing Capabilities

- Advanced Test Services for Complex Optical, RF and Microwave Products
- Turnkey Test Development: End-to-End Test, Functional and Structural
- 2D/3D X-ray, Flying Probe (FP), In-Circuit Test (ICT)
- Advanced Optical Inspection (AOI)
- PC JTAG Boundary Scan
- Environmental Stress Test (EST)/Burn-In

## Engineering Capabilities

- Custom Optical Beam Shaping Lens Designs
- Custom Optical Component Packaging to 40/100 Gbps
- High Speed Digital Design with Timing Analysis
- Analog Design
- Complete System and Product Design for Complex Opto-electronic Systems and Sensors, Qualification, and NPI
- Embedded Digital Processor, FPGA, and SW/FW Development.
- Mechanical Plastics and Metal Design
- Custom Process Engineering for Complex Optical Assemblies
- Application Areas Incl Free Space Optics, LIDAR, Optical Modules, Optical Sensors, Optical Combs

## Logistics

- Direct-Order-Fulfilment
- Build-to-Order (BTO)/Configure-to-Order (CTO)

## Certifications

- ISO 9001, 14001 and 13485
- TL 9000
- AS9100B
- Controlled Goods Registered



### CABLES

- Zhangpu, CN
- Monterrey, MX
- Port Glasgow, UK
- San Jose, CA



### GLOBAL SERVICES

- Bogota, CO
- Brno, CZ
- Buenos Aires, AR
- El Paso, TX
- Guadalajara, MX
- Johannesburg, ZA
- Penang, MY
- Tatabánya, HU
- Thailand, TH
- Juarez, MX
- Markham, ON
- Melbourne, AU
- Mexico City, MX
- Sao Paulo, BR
- Basingstoke, UK
- Kunshan, CN
- Singapore, SG
- San Jose, CA
- Fort Mill, SC



### DESIGN CENTERS

- Carrollton, TX
- Chennai, IN
- Colorado Springs, CO
- Guadalajara, MX
- Kanata, ON
- Singapore, SG
- Yasu, JP
- Huntsville, AL



### INTEGRATED MANUFACTURING SERVICES

- Carrollton, TX
- Campinas, BR
- Chennai, IN
- Fermoy, IR
- Guadalajara, MX
- Gunzenhausen, GR
- Haukipudas, FI
- Huntsville, AL
- Kanata, ON
- Kenosha, WI
- Kunshan, CN
- Ma'alot, IL
- Manchester, NH
- Örnköldsvik, SW
- Pathum Thani, TH
- Penang, MY
- Port Glasgow, UK
- San Jose, CA
- Shenzhen, CN
- Singapore, SG
- Tatabanya, HU
- Salt Lake City, UT
- Reynosa, MX



### PLASTICS

- Turtle Lake, WI



### PCB

- San Jose, CA
- Costa Mesa, CA
- Singapore, SG
- Wuxi, CN



### BACKPLANES

- San Jose, CA
- Guadalajara, MX



### MECHANICAL SYSTEMS

- Austin, TX
- Fremont, CA
- Guadalajara, MX
- Houston, TX
- Newark, CA
- Shenzhen, CN
- Suzhou, CN

## ABOUT SANMINA CORPORATION

Sanmina Corporation is a leading integrated manufacturing solutions provider serving the fastest-growing segments of the global Electronics Manufacturing Services (EMS) market. 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 medical, communications networks, defense and aerospace, industrial and semiconductor systems, multimedia, computing and storage, automotive and clean technology sectors. Sanmina has facilities strategically located in key regions throughout the world.

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