



SANMINA

Design & JDM

World-class RF, Optical & Microelectronic Design



Ottawa, Canada



The Sanmina Ottawa, Canada design center, as part of the global RF, Optical and Microelectronics engineering team, delivers a wide-range of product design and development solutions, from concept definition to product qualification and manufacturing, specializing in RF, Optical and Microelectronic applications. With a

world-class engineering team, supported by state-of-the-art design and modeling tools, as well as local quick turn NPI manufacturing, we develop high-quality RF & optical products for the telecommunications, industrial, medical, clean energy and defense & aerospace industries, at the component, module and system level. We offer comprehensive product design and NPI solutions applying RF/Microwave, optical, systems, test, mechanical, multi-chip modules, microelectronic and optical packaging, as well as product reliability and component engineering. Sanmina Ottawa offers these services as stand alone or as part of an end-to-end, turnkey product development and manufacturing solution, with optional full product sustaining engineering. Our Ottawa facility, fully equipped with the latest Microelectronic and Optical manufacturing technologies, manages all aspects of support in process and test development, rapid prototyping, NPI and volume manufacturing ramp. As a key part of our customer engineering team, our design and engineering group ensures design solutions meet volume manufacturing requirements for optimum performance, quality, scalability and product costs.

Sanmina Worldwide

Manufacturing Capabilities

- Full-Service, Microelectronic Assembly and Test
- Complex Optical Assembly, including Active/Passive alignment & Specialty Fiber Splicing
- Experience with Complex Connectorization Custom Packaging, Flex Circuit and Thick-Wide Backplane Technologies
- Precision Automated SMT Assembly with 01005 & Flip Chip Capability
- System-Level Integration, Box-Build and Test
- Value-Add/Value Engineering (VA/VE) Services

Testing Capabilities

- Advanced Test Solutions for Complex Optical, RF & Microwave Products
- Turnkey Test Development: End-to-end Test, Functional and Structural
- Comprehensive Test Facilities: 2D/3D X-Ray
- Flying Probe (FP), In-circuit Test (ICT), Advanced Optical Inspection (AOI) and PC JTAG/Boundary Scan
- Environmental Stress Test (EST)/ Burn-in Facilities

Engineering Capabilities

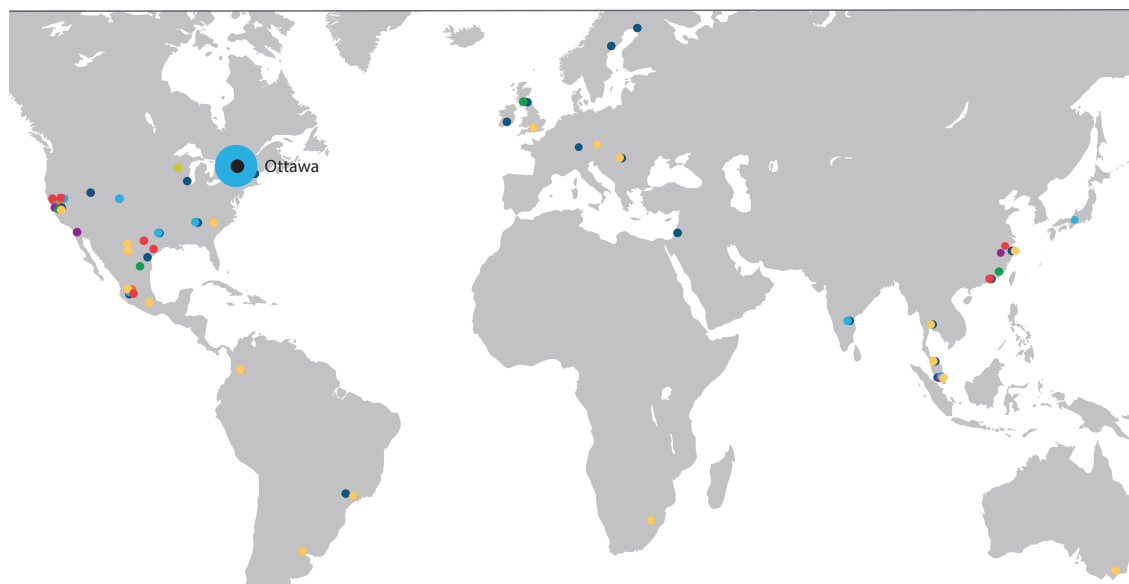
- Full Turnkey Design for Optical, RF and Microwave Products
- Product Design, Qualification, NPI
- RF/Microwave, Optical, Microelectronics
- 100-200-400Gb/s Components & Integrated Opto-Electronic Modules
- Custom Microelectronic and Optical Packaging Design
- Custom Process Engineering for Complex Optical and Microelectronic Assembly
- VAVE, Product Sustaining

Logistics Services

- Direct Order Fulfillment
- 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
- Tatabánya, 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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