



SANMINA

# Optical, RF, Microwave, PCBA & System Assembly Ottawa, Canada



## Leadership in RF and Optical Design, NPI & Technology

The Sanmina Ottawa, Canada, facility partners with some of the world's most advanced technology leaders to create complex optical and RF/Microwave products. With experience in Optical, RF and Microelectronics, we provide Product Design and Development, Test Engineering, Process Engineering, and New Product Introduction (NPI) support for Component, Module and System-Level Applications. We also manage all aspects of product manufacturing, along with implementing product-sustaining and cost-reduction strategies. Sanmina continuously invests in improving our production processes and characterizing key supplier component variations to meet the on-going demands associated with designing and manufacturing state-of-the-art optical and RF microwave products. We've developed a library of design building blocks/models and manufacturing process variations to reduce risk in the product design phase. This allows us to refine our design tools to match production results and enable our simulation models to accurately predict performance and yields before the first prototype is built, speeding time-to-market.

### 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
- ISO 14001
- ANSI/ESD S20.20
- AS9100
- Controlled Goods Registered
- TL 9000

### 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.

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