



SANMINA

Design & JDM

Leadership in Electronics Product Design

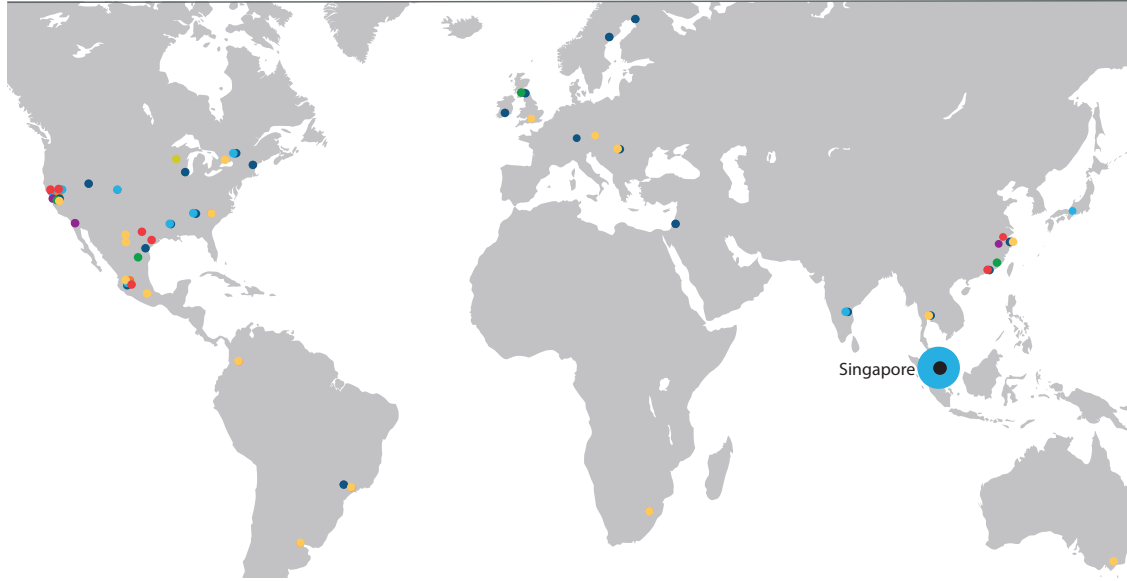


Chai Chee, Singapore



The Sanmina Singapore facility partners with some of the world's most innovative high-technology companies to design a wide range of complex finished electronic systems including medical diagnostic instruments, data center storage solutions and point-of-sale products. With experience in System Architecture, Circuit Design, Software Development, Mechanical Design and System Qualifications, combined with our close proximity to Sanmina's manufacturing and PCB facilities, the Sanmina Singapore facility provides a one-stop solution for design services, quickturn prototyping, New Product Introduction (NPI), manufacturing and sustaining engineering. Our advanced development tools enable efficient design that reduces risk and accelerates time-to-market.

Sanmina Worldwide



Manufacturing Capabilities

- Full-service, Micro-electronic Assembly and Test
- Complex Optical Assembly, Including Fiber Splicing
- Experience with Complex Connectors, Custom Packaging, Flex Circuit and Thick-Wide 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

- Environmental Stress Test Chambers and Burn-In Facilities
- Comprehensive Test Facilities: 2D/3D X-Ray, Flying Probe (FP), In-Circuit Test (ICT), Advanced Optical Inspection (AOI) and PC JTAG/Boundary Scan
- Product Certification (FCC, UL) Services

Engineering Capabilities

- Full Turnkey or Joint Design Services for Medical Products and Point-of-Sale Products
- Hardware Design and PCB Layout. High-Speed Simulation
- Software Development: Firmware, Diagnostics and Application Software
- Mechanical Enclosure Design, Moving Mechanism, Structural Analysis
- Reliability Engineering, DFMEA and Risk Analysis

Certifications

- ISO 13485 Design Certified

- **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
 - Fremont, CA
 - Guadalajara, MX
 - Kanata, OT
 - San Jose, CA
 - 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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