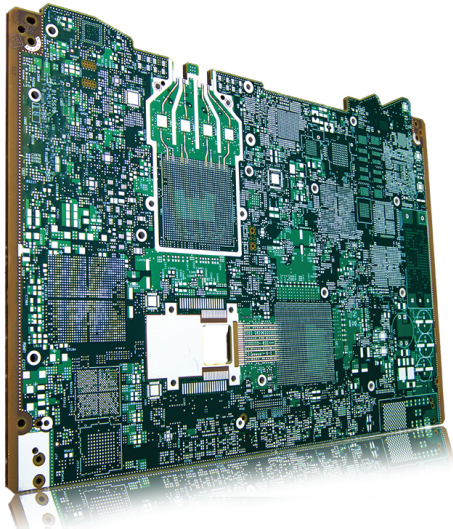




SANMINA

PCB Fabrication

Extensive
Manufacturing
& Engineering
Capabilities

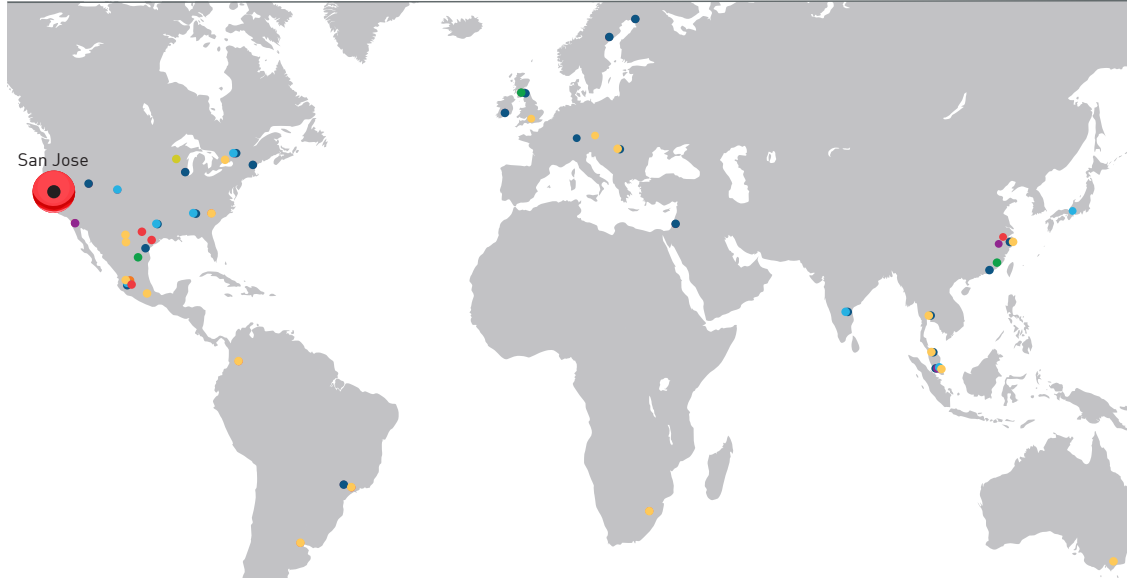


San Jose, California



Located in the heart of Silicon Valley, our San Jose facility produces some of the most advanced printed circuit boards and backplanes in the world. For over 30 years, Sanmina has led the industry with numerous innovations in technology, including buried passives, multiple sequential laminations and “any layer” HDI via structures. We work with leading high speed communications, networking and computing companies in the world, providing custom board technologies for their most demanding applications. Our San Jose facility provides complete PCB design and analysis services, including high speed product design, layout and rules checking, quickturn prototyping and in house signal integrity analysis. We work with manufacturers of the most advanced laminate materials to qualify and develop processes for the latest high speed materials. The San Jose operation is part of our integrated service offering in the San Francisco Bay Area that includes product design, system assembly, cables, enclosures and machining. For superior printed circuit boards in Silicon Valley or anywhere in the world, high technology companies trust Sanmina.

Sanmina Worldwide



Manufacturing Capabilities

- 2-day Quickturn on Selected Technologies
- New Product Development
- Design for Manufacturing Analysis
- Advanced Process Engineering
- Failure Analysis
- Clean Room Assembly

Engineering Capabilities

- Board Thickness : 0.015" to 0.480"
- High-Layer Count (up to 70+ layers)
- Panel Sizes to 54"
- Mechanical and Laser Drilled Micro Vias
- High-aspect Ratio (up to 35:1)
- Specialty and High-Speed Laminates
- Sequential Lamination
- Embedded Passives Technology
- Heavy Copper
- Positive Etchback & Epoxy Via Fill

Testing Capabilities

- Bareboard Test (100% Net List)
- Universal Bed of Nails (3)
- Flying Probe (5)
- TDR (Polar) & VNA

Technologies

- Hi-speed, Hi-temp FR
- Epoxy/PPO & BT/Epoxy
- Low-loss PPE & Polyimide
- Thermal Set PTFE Alternative
- SMOBC/HASL
- Full and Selective Soft or Hard Gold
- OSP-Entek 106HT
- Immersion Silver, ENIG, Tin, Fused Tin/Lead

Certifications

- ISO 9001 and ISO 14001
- TL 9000
- AS 9100
- ITAR
- ESD S20.20 Compliant
- MIL-PRF-31032 & 55110
- UL Approved Telcordia GR-78-CORE

- **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
 - Newark, CA
 - Houston, TX
 - 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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