



About **Company**

Company Profile & Services

iCAD Interconnect systems provide support services for the Electronics Industry throughout the global. Guided by designers with 15+ years experience and IPC USA CID Certification, we assist semiconductor, aerospace, automotive, medical, and military sectors in High-speed PCB design, Signal Integrity, and embedded services.

Manufacturing & NPI

iCAD provides Custom Design and Manufacturing Services (CDMS) for end-to-end solutions from design to manufacturing. Our Experienced NPI Team validates the Gerber and support towards error free manufacturing process to produce quality PCB's and assembly within the schedule.

Why iCAD?

- **IPC Certified Designers**
- **Exclusive Quality Engineering Team**
- **NDA Based Design Services**
- **Onsite / Offshore Capabilities**
- **Complete Documentation & Deliverables**

Contact Us



Tel : +919632322773



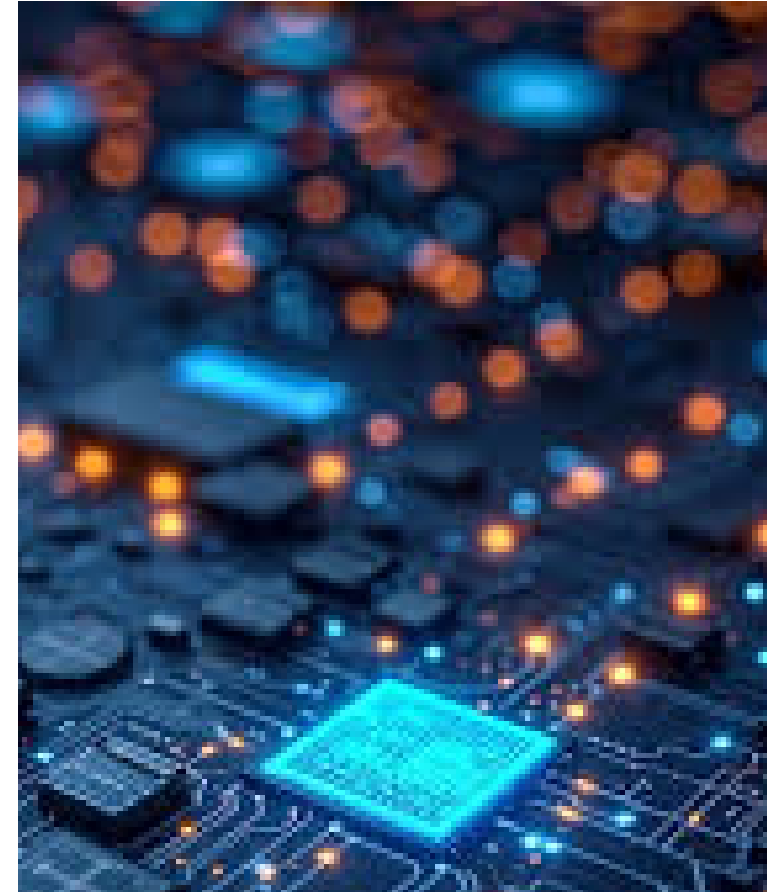
Email : vivek@icaddesigns.com

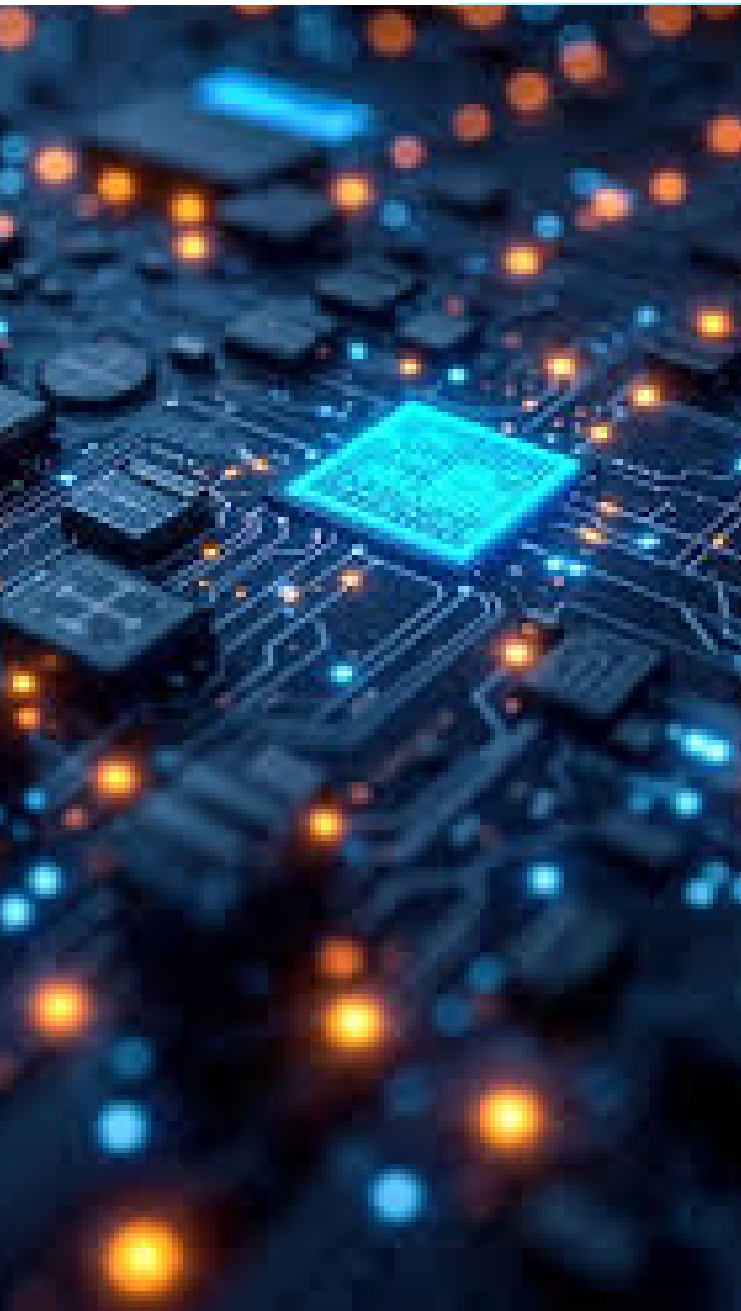


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We quality our work for customer satisfaction. Provide the best solution for all your problems.





All Our **Services**

- **Engineering Services**
- **Library Design Services**
- **PCB Design Services**
- **Signal Integrity Services**
- **Embedded Services**
- **PCB Manufacturing & Assembly Support**

Finally we believe,

"THE QUALITY STANDS"



Technology Expertise & Tools used

- **HDMI, VME, LVDS, RVDS**
- **High speed USB**
- **SPI-4**
- **Ramus RDRAM**
- **Serial ATA**
- **Rapid IO**
- **High speed SERDES**
- **DDR2, DDR3, QDR-SRAM**
- **Ethernet PHY**
- **PCI,PCI-e**
- **Backplane connectors upto 30Gbps**

EDA Tools

- **ALLEGRO**
- **BOARD STATION**
- **EXPEDITION**
- **PADS**
- **ALTIUM**
- **CADSTAR**





Engineering Services



- Library & Schematic Development
- Multi-Layer PCB Design (High-Speed, RF, Mixed, Power)
- ATE Board Design
- Onsite & Offshore Contracting
- DfX Analysis & Services
- PCB Manufacture & Assembly
- Signal Integrity Support
- Reverse Engineering
- Embedded Design Services

Library Design Services



Library development is critical. Our team ensures absolute precision via accurate symbols and 3D footprint verification.

- IPC-7351 & Naming Conventions Compliant
- Seamless Library Migration Across EDA Tools
- Component Footprint & Symbol Creation
- Strict Adherence to Customer & IPC Standards
- Library Development Under All Major EDA Tools
- IEEE, JEDEC, and IPC Standard Footprints

PCB Manufacturing Assembly Support



iCAD provides one-stop, end-to-end Custom Design and Manufacturing Services(CDMS) from concept to production. Our NPI team validates Gerber files for error-free fabrication, using cutting-edge tech to deliver advanced as high-aspect-ratio boards at highly competitive costs.

Backed by global vendor and EMS partnerships, we deliver cost-effective manufacturing and high-density assembly, including complex BGA and fine-pitch components. Every batch undergoes rigorous inspection to guarantee the absolute quality.





Embedded Services



We provide end-to-end embedded engineering solutions backed by experienced hardware and software specialists.

Key Capabilities :

- Microcontroller-Based Product Development
- Concept-to-Prototype Design & Testing
- Custom Manufacturing for Complex Systems
- Expert Hardware & Software Consultation

PCB Design Services



- Layers: Single to unlimited multi-layer layouts.
- HDI: Micro-vias, via-in-pad, via stacking, blind/buried.
- High-Speed: DDR2/3, USB, PCIe, bus routing, differential pairs.
- Dense SMT: BGA, uBGA, PCI, PCIe, Mini PCI routing.
- RF/Analog: IPC standards, printed antennas, shields, guard rings.
- SI: Advanced Signal Integrity analysis & simulation.
- DFX: Optimized design for maximum manufacturing yield.
- EDA & RE: Cross-tool conversion and reverse engineering.

Signal Integrity Services



We provide comprehensive Signal Integrity (SI) analysis to detect and eliminate critical EMI/EMC and signal performance issues. Utilizing advanced IBIS models, multi-board system-simulations, and eye pattern plots, we optimize multi-Gigabit and high-speed SERDES designs.

Our expertise includes stack-up planning for controlled impedance, dielectric material selection for high frequencies and the precise routing specifications to mitigate reflection, ringing, overshoot and crosstalk across all serial communication channels.

