

PCB Design Services

Accelerating Innovative Solutions

PCB Design Services

- PCB Layout
 - Rules Driven Designs (Design Constraints)
 - Digital, Analog, RF, low noise, high voltage
 - Controlled Impedance/Length Matching
 - .35mm uBGA to 2200+ pin BGAs
 - Laser, Stacked, Buried vias, via-in-pad, back-drill stub-reduction
 - High speed (XAUI, PCIe, SerDes, LVDS, Fiber Channel, PCIe, Gig-E, etc.)
 - DDR2, DDR3, DDR4 memory
 - Flex and Rigid-Flex Circuits
 - Power Supplies, Heavy Copper
 - FPGA/CPLD pin swaps , via minimization
 - Stack-up development and verification
 - Documentation and build packages preferred by Fab Houses and CMs
 - Designed for use from prototype to high volume production
 - Sub-panel array optimization
- PCB Library Development
 - Optimized IPC PCB Footprints
 - Schematic Capture/Schematic Symbols
- DFX Analysis (DFM, DFA, DFT, etc.)
- Schematic / PCB Translations
 - Altium Designer to OrCAD /Allegro
 - OrCAD/Allegro to Altium Designer

Development Tools

- PCB Layout Tools
 - Cadence Allegro/OrCAD PCB
 - Altium Designer
 - Mentor Xpedition
- Netlist inputs from most front-end tools
- Output Formats
 - IPC-2581
 - ODB++
 - Fabmaster
 - IDF 3-D Mechanical interface
 - DXF
 - Gerber RS274X
- Schematic Capture Tools
 - OrCAD Capture
 - Altium Designer
 - Cadence ConceptHDL
- GoToMeeting screen-sharing ensures rapid responses to questions and real time assistance with Design Review milestones
- Comprehensive Checking – design improvement feedback to get it right on the first REV

Core Source Technologies maintains licenses for multiple versions of common PCB design tools. Let us know your preferences.