

## Printed Circuit Board Design Services

### Design Expertise Areas:

High Speed Design	High Density	Rigid
Impedance Control	Blind and Buried vias	Flex Circuit
Matched Lengths	BGAs/microBGAs	Rigid-Flex
Differential Pairs		Thru-Hole
Design for EMI & EMC control	Design Reuse	Surface Mount Technology
		Single/Double/Multilayer
Quick Turn Around	Analog/Digital/Mixed	
Safety Critical Design		Design for Fabrication
Miniaturization	Power Supply	Design for Manufacturing
Electro-Mechanical Packaging	Thermal Management	Design for Test

### Software Utilized:

PADS Layout and Router  
PADS Logic  
OrCAD  
Altium (Protel)  
CAM350  
SolidWorks  
AutoCAD  
Support for many other layout tools

### Memberships:

IPC Designers Council  
SMTA  
Mentor Graphics Customer Advisory Board

### Other Avatar Engineering Services:

Hardware and Software Engineering  
Prototype and Full Production Assembly  
RoHS Compliant Assembly  
Component Engineering  
Full Functional Testing  
Parts Procurement  
Mechanical Design

### Complete Documentation Provided:

Schematic  
Gerber files  
PCB Artwork files  
Fabrication and Panelization Drawings  
Assembly Drawings

### Awards/Certifications:

IPC Certified Designer   
PCB Design Contest Winner:  
"Best Paper Award"  
"Most Manufacturable Design"  
"Overall Best Design"  
Six Sigma Certified

### Other PCB Design Services:

Reverse Engineering  
Gerber file to CAD PCB file Conversion  
AutoCAD/DXF to Gerber  
Thru-Hole to SMT Conversion  
Concurrent PCB Design  
RoHS Compliant PCB Analysis/Conversion

### Contact:

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