



Caliber Interconnect Solutions

Design for perfection

CALIBER SI & PI Capabilities



Caliber Interconnect Solutions (Pvt) Ltd
No 9 B/1 , Poombukar Nagar,
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Mission & Vision

Mission

“Provide dependable solutions to the satisfaction of the customers through intensive R&D and proven quality control procedures using disciplined workforce.”

Vision

“Developing and applying technological solutions to the benefits of the society that will not affect the safety and living standards of our future generations.”

Quality Policy

“CALIBER INTERCONNECT SOLUTIONS PRIVATE LIMITED is committed to meet and exceed customers expectations through timely delivery of cost effective quality designs through ever improving process and team work.”



SI & PI CAPABILITIES

We have Simulation expertise in areas, including, but not limited to the below summarized descriptions.

CATEGORY	SERVICE OFFERED	BRIEF DESCRIPTION	
SI	Via impedance optimization	- using Full wave EM solver	
	S-Parameter extraction	- using ANSYS Siwave ; Cadence Sigrity PowerSI	
	TDR impedance plot	- using the TDR result to optimize on channel performance	
	Time domain analysis		- to generate various waveforms
			- Simulation using IBIS-AMI simulation models
			- Eye diagram generation
			- Skew calculation
			- Various interface compliance
		- DDR2,3,4 ; PCIe ; SERDES Channel ; USB ; QSFP ; HDMI etc.,	
	RF channel analysis	- Matching network analysis, RF analysis analysis etc.	
	Crosstalk analysis	- pre and post layout	
	RLGC Extraction	- using Full wave EM solver	
EMI / EMC test			
Failure board analysis	- To find the possible reason for failure of a board using simulation		



SI & PI CAPABILITIES

CATEGORY	SERVICE OFFERED	BRIEF DESCRIPTION
PI	DC IR drop analysis	- validating whether the power net will carry the required current
	Power impedance Z11 analysis	- validating whether the power net has low enough impedance to cause less voltage ripple
	Decap optimization	- optimizing the capacitor values to achieve the impedance target
	Time domain analysis	- simulating the voltage ripple using the IC current consumption values
	SSN / SSO analysis	- combined simulation of SI and PI effects
THERMAL	Thermal simulation	- using the components thermal parameters
	Thermal / Electrical co-simulation	- to include the joule heating effect in analyzing the Power nets



SI & PI TOOLS USED

We have expertise in the following simulation tools

- ANSYS SiWAVE
- ANSYS Designer
- **Cadence Sigrity Products**
 - PowerSI
 - PowerDC
 - OptimizePI



Global Presence

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Thank You

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Visit us at

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