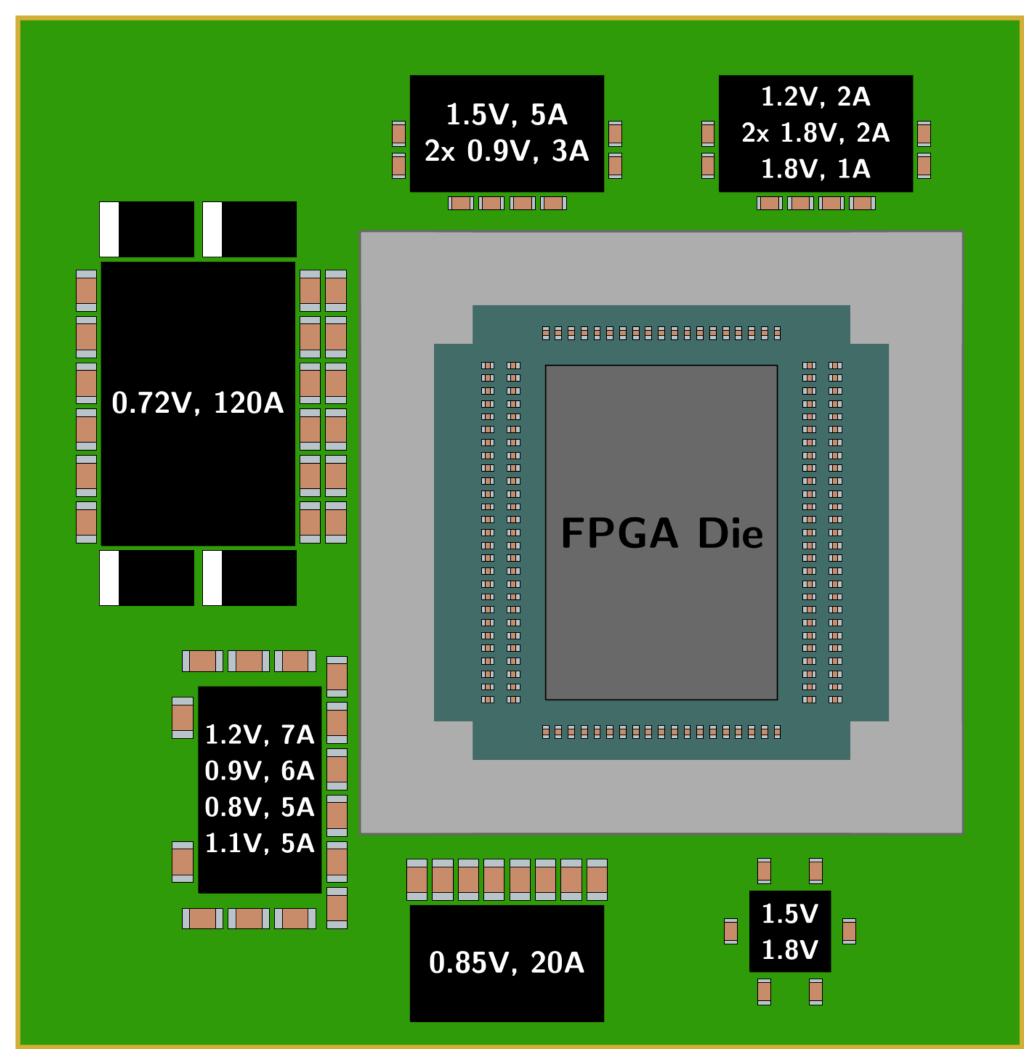
Area Savings: 50-70%

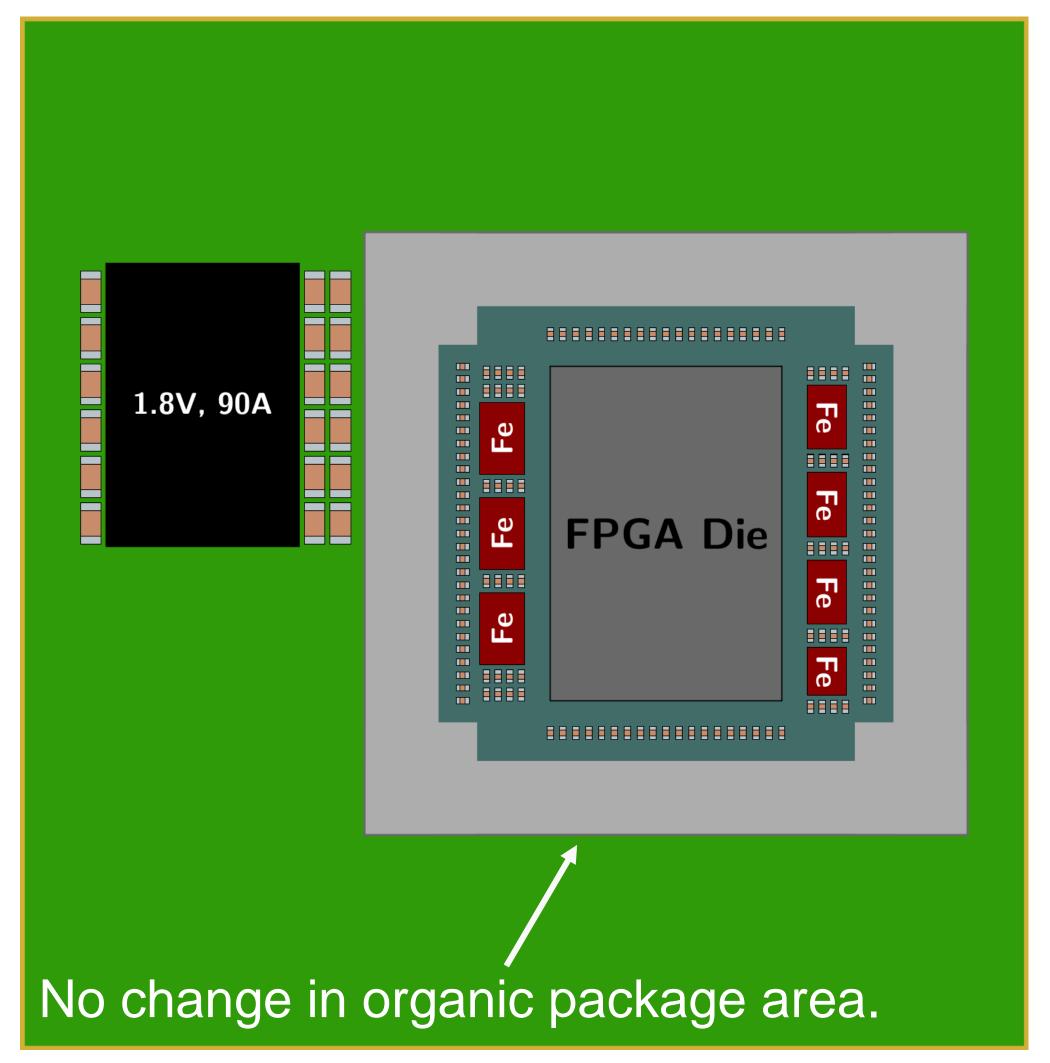


Ferric's Integrated Inductor Voltage Regulators (ILVR) are small enough to be moved inside SoC package, significantly reducing PCB area.

Conventional VR Solution: 1373 mm²

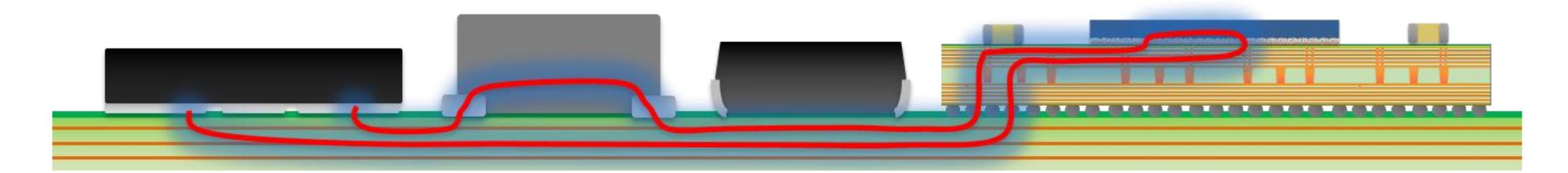


Ferric ILVR Solution: 605 mm²



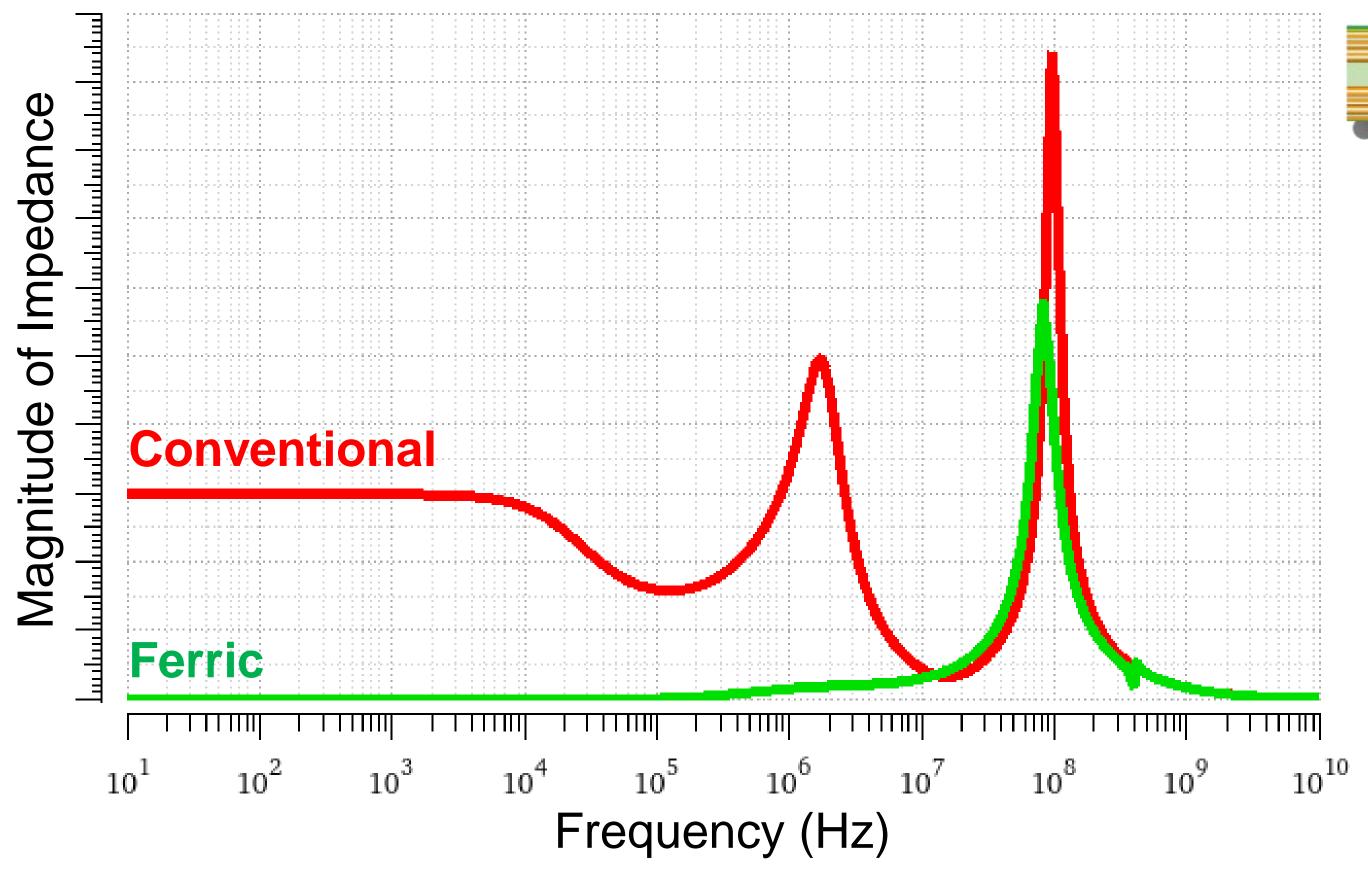
Improved Power Integrity

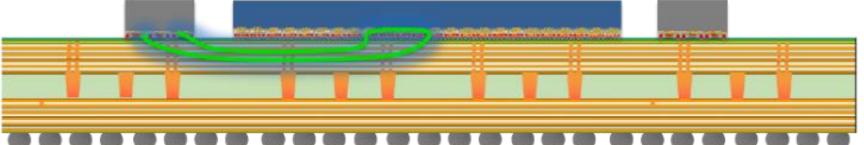




Conventional Power Delivery Network (PDN)

Ferric Power Delivery Network (PDN)



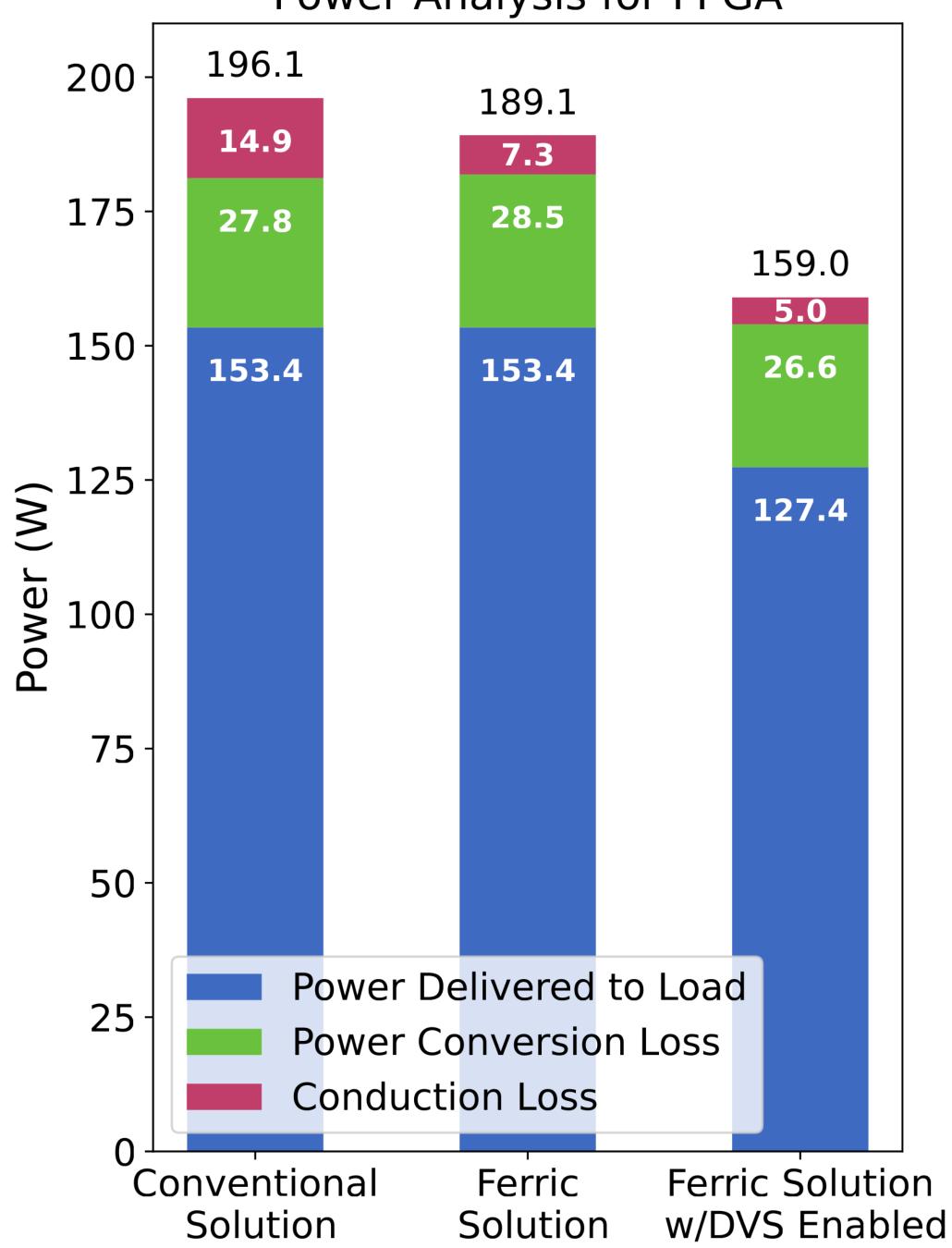


- Smaller loop inductance
- Less bulk capacitance
- Higher feedback bandwidth
- Fewer parasitics
- Less impedance overall

Power Savings: 15-30%







Lower Conduction Losses

- -Shorter routing of power domains
- Improved Voltage Regulation
 - Tighter voltage margins lead to quadratic improvement in power performance
- Improved Power Management
 - -Faster Dynamic Voltage Scaling
 - -Faster Telemetry Readings
 - -Faster Loadline
- Granular Power Domains with Individual Control