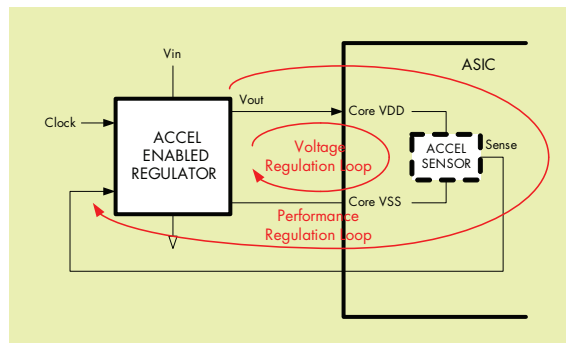




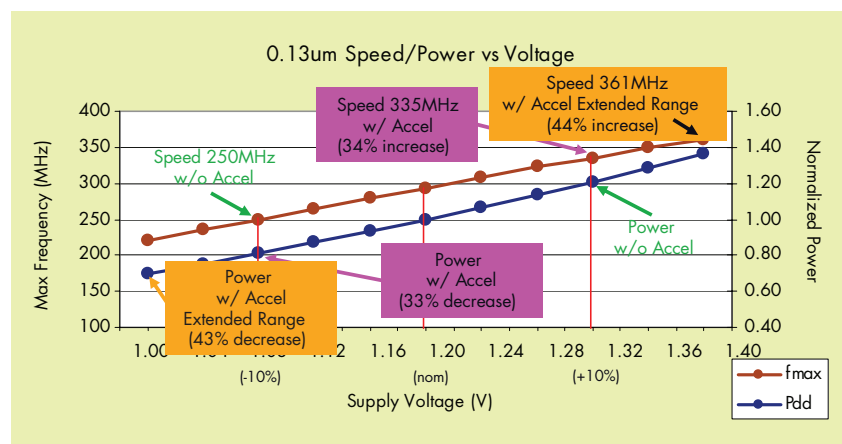
## ASIC AND DESIGN SERVICES

*Your Partner in Design and Manufacture*

# OPTIMIZE ASIC SPEED AND POWER WITH ACCEL™ TECHNOLOGY



- **Performance Regulation Transcends Voltage Regulation**
- **Achieve Higher Speed and Lower Power with Less Design Effort**
  - 35-45% performance improvement
  - Selectable mix of speed and power benefits
- **Highly Consistent Device-to-Device Timing**
  - 85% less variation due to process and temperature
- **In-System Control of Operating Point**
  - Tune ASIC performance to design target
  - Correct timing problems without redesign





## ASIC AND DESIGN SERVICES

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### ASIC BENEFITS OF ACCEL™ TECHNOLOGY

*As silicon feature sizes continue to shrink, requiring lower supply voltages, tolerances in conventional supply regulation techniques have made ASIC design increasingly difficult.*

*Standard voltage tolerances result in a large variation in performance, making it difficult to achieve speed/power goals within a competitive development cycle. iSine has recognized the need for a more effective approach to managing performance and has developed a solution based on performance regulation to address this critical need.*

**For more information, contact your iSine Sales Representative.**



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Boston, MA 02108  
617.695.2700  
www.iSine.com

- **Reduce Die Size**
  - 8-10% reduction for typical designs
- **Eliminate IR Drop Effects**
  - Including power distribution of die, package, and board
- **Improve Reliability**
  - Achieve speed goals with minimum power dissipation
  - Eliminate performance degradation over product lifetime
- **Improve Product Yield**
  - Eliminate marginal performance problems
  - Enable safe utilization of fringe product
- **Extend Product Life**
  - Deliver next generation performance without migrating to new process technology
- **Accelerate Design Closure Schedule**
  - Design with tighter timing/power models
  - Compatible with standard design flows
- **Accelerate Prototype Debug Efforts**
  - Quickly flush out and correct timing problems
  - Evaluate in-system performance across voltage range

**Accel™ Product Family Available for a Wide Range of Applications and ASIC Technologies**