

RMI Alchemy™ Au1500® Processor

Internet Edge Processor

Multiply-Accumulate (MAC) and Divide Unit

- Max Issue Rate of one 32x16 MAC per Clock
- Max Issue Rate of one 32x32 MAC per Every Other Clock
- Operate in Parallel to CPU Pipeline
- Executes all Integer Multiply and Divide Instructions
- 32x16-bit MAC Hardware

MMU

- Instruction and Data Watch Registers for Software Breakpoints
- Separate Interrupt Exception Vector
- TLB
 - 32 Dual-entry, Fully Associative
 - Variable Page Sizes 4KB–16MB
 - 4-entry ITB

PCI

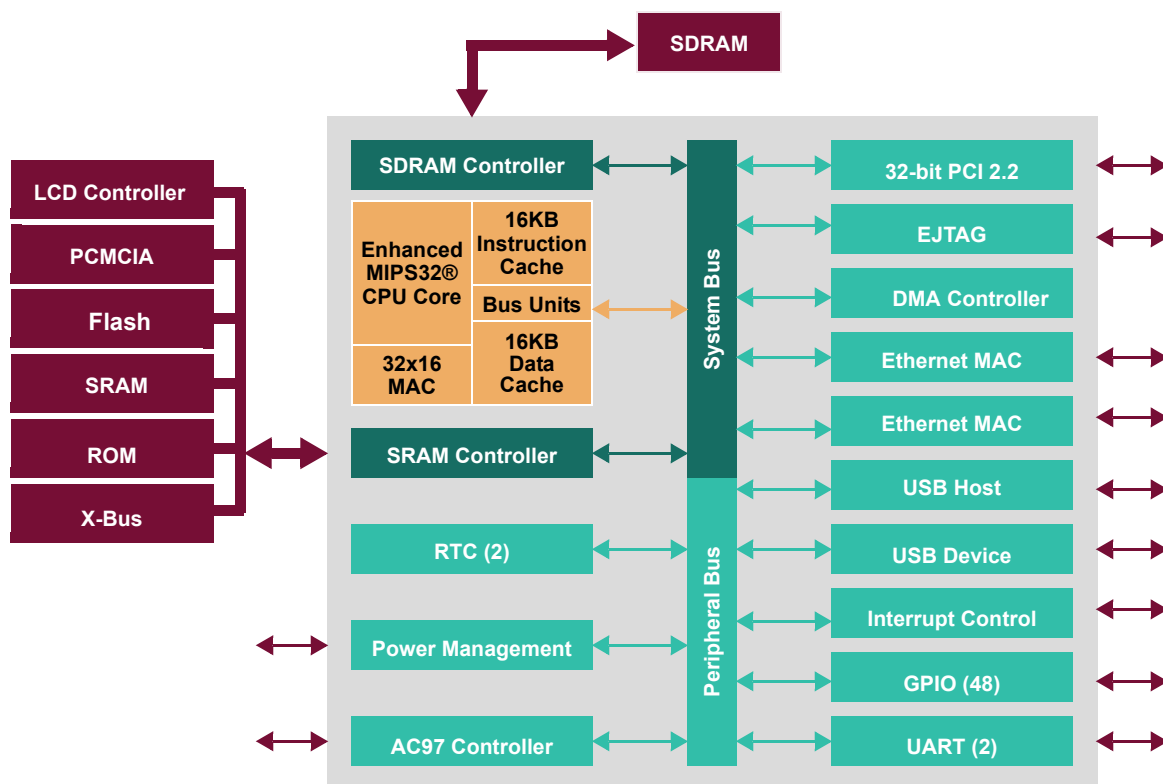
- PCI 2.2 Compliant Core
- Configurable as Host or Satellite
- 32-bit Address/Data Bus
- 33MHz/66MHz Source or Sink Clock
- PCI Boot Supported

EJTAG Support

- Revision 2.5
- Probes Availability from Major Vendors

Low Power Consumption

Core MHz	Core Voltage	Power
333	1.5	<400mW
400	1.5	700mW
500	1.8	1.2W



About RMI

Raza Microelectronics, Inc. (RMI®) is a fabless semiconductor company providing highly-integrated feature-rich products ranging from power-optimized System-on-a-Chip (SoC) solutions to High-Performance Processors for the Digital Consumer, Wireless, Networking and Security markets. RMI offers the most advanced and most complete MIPS-Based™ processing solutions with both 32/64-bit architectures supporting frequencies from 300MHz to 1.2GHz. The company is headquartered in Cupertino, CA with offices in Texas, India, Korea, Japan and China. More information about RMI can be found on the company's website at www.RazaMicro.com

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