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80960CA-33, -25, -16 32-BIT HIGH-PERFORMANCE EMBEDDED PROCESSOR

- Two Instructions/Clock Sustained Execution
- Four 59 Mbvtes/s DMA Channels with Data Chaining
 - Demultiplexed 32-bit Burst Bus with Pipelining
- 32-bit Parallel Architecture
 - Two Instructions/clock Execution
 - Load/Store Architecture
 - Sixteen 32-bit Global Registers
 - Sixteen 32-bit Local Registers
 - Manipulates 64-bit Bit Fields
 - 11 Addressing Modes
 - Full Parallel Fault Model
 - Supervisor Protection Model
- Fast Procedure Call/Return Model
 - Full Procedure Call in 4 Clocks
- On-Chip Register Cache
 - Caches Registers on Call/Ret
 - Minimum of 6 Frames Provided
 - Up to 15 Programmable Frames
- On-Chip Instruction Cache
 - 1 Kbyte Two-Way Set Associative
 - 128-bit Path to Instruction Sequencer
 - Cache-Lock Modes
 - Cache-Off Mode
- High Bandwidth On-Chip Data RAM
 - 1 Kbyte On-Chip Data RAM
 - Sustains 128 bits per Clock Access

- Four On-Chip DMA Channels
 - 59 Mbytes/s Fly-by Transfers
 - 32 Mbytes/s Two-Cycle Transfers
 - Data Chaining
 - Data Packing/Unpacking
 - Programmable Priority Method
- 32-Bit Demultiplexed Burst Bus
 - --- 128-bit Internal Data Paths to and from Registers
 - Burst Bus for DRAM Interfacing
 - Address Pipelining Option
 - Fully Programmable Wait States
 - Supports 8-, 16- or 32-bit Bus Widths
 - Supports Unaligned Accesses
 - Supervisor Protection Pin
- Selectable Big or Little Endian Byte Ordering
- High-Speed Interrupt Controller
 - Up to 248 External Interrupts
 - 32 Fully Programmable Priorities
 - Multi-mode 8-bit Interrupt Port

 - Four Internal DMA Interrupts - Separate, Non-maskable Interrupt Pin
 - Context Switch in 750 ns Typical

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World Wide Website: http://www.intel.com

U.S. Literature Center: 800-548-4725

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