## **SIBIZ** Corporation

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# **TRIMON T250**

High-Performance Multi-Threaded Procesor Core

### **Feature Specification**

- High-Performance MIPS I Instruction Set Compatible Processor Core
- Extensions and accelerators to the Instruction Set can be added
- Hardware multi-threaded support
- 4 hardware threads supported (scalable to 8, 16, 32)
- Dedicated instruction and data thread context storage
- Single cycle thread swap
- 16kB Instructiom Memory (IMEM). IMEM size can be changed based on application requirements.
- 16kB Data Memory (DMEM) DMEM size can be changed based on application requirements.
- 250MHz Operating frequency in 0.18um TSMC process

# The TRIMON T250 IP Package

- TRIMON 4TR250 Verilog RTL
- Verilog Testbench
- Verification Environemnt, scripts and tools

- Operating frequency can be increased if necessary.
- 0.3mm\*\*2 in 0.18 TSMC process without memories
- 1.5mm\*\*2 in 0.18 TSMC process including memories
- Support for 3 external independent memory systems, memory load-store units included.
- The External Memory Interface is scalable and it can support different partitioning.
- Gaskets can be added to support buses like AMBA etc.
- RS232 based software debugger (optional)
- Ideal for SoC data-communication, packet processors, packet classification engines and embedded applications.
- Assembler development toolchain
- "C" development toolchain
- Micro-Kernel program management firmware



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## **Block Diagram**

