The SOC-IntrCtrl-AHB is a programmable interrupt controller designed to interface to an AMBA AHB bus. The interrupt function is necessary for any embedded microprocessor based SOC that is running a Real Time Operating System (RTOS).

The SOC-IntrCtrl-AHB Interrupt Controller is fully scalable to support 1 to 32 interrupt sources and provides a programmable interrupt register which can be used to generate an interrupt under software control. The SOC-IntrCtrl-AHB Interrupt Controller provides separate enable set and enable clear mechanisms to prevent dangerous read-modify-write operations within the critical interrupt system. Active high and active low interrupt request outputs are available to facilitate cascading of multiple interrupt controllers in order to support more than 32 interrupt sources.

**Deliverables**

The SOC-IntrCtrl-AHB package includes fully tested and verified Verilog source and Verilog testbench. The SOC-IntrCtrl-AHB can also be delivered as an FPGA Netlist for Xilinx, Altera and Actel FPGAs.

**Support**

The SOC-IntrCtrl-AHB core as delivered is warranted against defects for ninety days from purchase. Thirty days of phone and email technical support are included, starting with the first interaction. Additional maintenance and support options are available.