

## CC-WDT-AXI Configurable Watchdog Timer

### Symbol



### Features

- AMBA AXI4-Lite bus
- Configurable timeout interval
- Standard and windowed mode
- Stop in debug mode option
- Register write protection
- Fully synthesizable synchronous design with positive edge clocking
- DFT ready

### Benefits

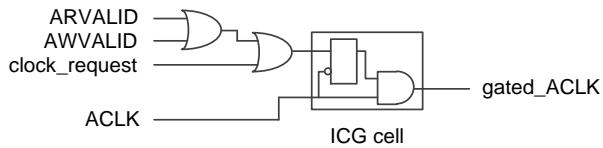
- Supplied as human-readable Verilog RTL source code
- Technology independent IP Core
- Suitable for FPGA and ASIC
- Silicon and FPGA proven
- Easy SoC integration
- Full implementation and maintenance support with individual approach
- Flexible licensing scheme

## Generic Parameters

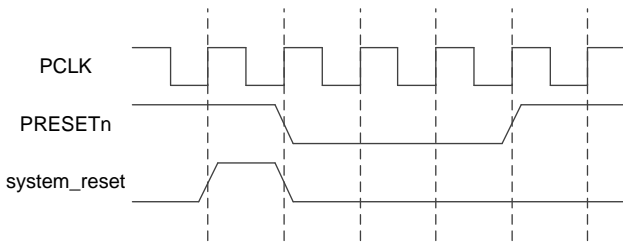
Generic name	Description	Type	Range
watchdog_width	Watchdog timer width	integer	1:32
prescaler_width	Watchdog timer prescaler width	integer	1:32

## Integration example

- Using clock\_request pin for low power mode:



- Timing of reset synchronizer connected to system\_reset pin:



## Pin-out Description

Pin name	Description	I/O	Active
ACLK	Synchronous clock	I	rising
ARESETn	Asynchronous reset	I	low
AWADDR[4:2]	AXI write address	I	data
AWPROT[2:0]	AXI write address protection type	I	data
AWVALID	AXI write address valid	I	high
AWREADY	AXI write address ready	O	high
WDATA[31:0]	AXI write data	I	data
WSTRB[3:0]	AXI write strobe	I	high
WVALID	AXI write valid	I	high
WREADY	AXI write ready	O	high
BRESP[1:0]	AXI write response	O	data
BVALID	AXI write response valid	O	high
BREADY	AXI write response ready	I	high
ARADDR[4:2]	AXI read address	I	data
ARPROT[2:0]	AXI read protection type	I	data
ARVALID	AXI read valid	I	High
ARREADY	AXI read ready	O	high
RDATA[31:0]	AXI read data	O	data
RRESP[1:0]	AXI read response	O	data
RVALID	AXI read valid	O	high
RREADY	AXI read ready	I	high
system_reset	Watchdog system reset output	O	high
debug_mode	Debug mode input	I	high
clock_request	Clock request signal	O	high

