

Free ebook Xilinx artix 7 fpgas a new performance standard for power [PDF]

amd artix 7 fpga most capable transceiver in low end device the fpga industry s only low end transceiver solution provides auto adaptive equalization 2d eye scan and ibis ami simulation models to simplify high speed serial design for cost sensitive applications the artix 7 fpga delivers the industry s most integrated type 1 single chip cryptography scc solution for superior secure swap c results extensive dsp resources allow for waveform processing capacity to integrate both the modem and cryptographic engine on a single chip artix 7 fpgas are available in 3 2 1 1li and 2l speed grades with 3 having the highest performance the artix 7 fpgas predominantly operate at a 1 0v core voltage the 1li and 2l devices are screened for lower maximum static power and can operate at lower core voltages for lower dynamic power than the 1 and 2 devices the amd artix 7 family of fpgas has redefined cost sensitive solutions by cutting power consumption in half from the previous generation while providing advanced functionality for high performance applications designers can leverage twice the logic density for the same power budget the artix 7 fpga delivers the industry s most integrated type 1 single chip cryptography scc solution for superior secure swap c results extensive dsp resources allow for waveform processing capacity to integrate both the modem and cryptographic engine on a single chip artix 7 fpgas redefine low cost alternatives with twice the performance and logic xilinx spartan 6 fpgas flexible built in interfaces high speed digital signal processors slices and transceivers and ddr3 memory interfaces enable a new class of low cost applications xilinx xa artix 7 automotive fpgas are optimized for the lowest cost and power with small form factor packaging for high volume automotive applications designers can leverage more logic per watt compared to the spartan 6 family the 7 series fpgas include spartan 7 family optimized for low cost lowest power and high i o performance available in low cost very small form factor packaging for smallest pcb footprint artix 7 family optimized for low power applications requiring serial transceivers and high dsp and logic throughput the xilinx artix 7 family of fpgas has redefined cost sensitive solutions by cutting power consumption in half from the previous generation while providing best in class transceivers and signal xilinx xa artix 7 automotive fpgas are optimized for the lowest cost and power with small form factor packaging for high volume automotive applications designers can leverage more logic per watt compared to the spartan 6 family amd xilinx artix 7 fpgas deliver a cost optimized performance in categories including logic signal processing embedded memory lvds i o memory interfaces and transceivers the artix 7 fpgas are ideal for cost sensitive applications that need high end features the xilinx artix 7 family of fpgas has redefined cost sensitive solutions by cutting power consumption in half from the previous generation while providing advanced functionality for edge applications designers can leverage twice the logic for the same power budget amd artix 7 fpgas deliver the lowest power and cost at 28nm and are optimized to give your designs the highest performance watt fabric ams integration and transceiver line rates in a low cost fpga artix ultrascale fpgas are a great fit for cost optimized nx10g or 25g systems enabled by 12 gb/s and 16gb/s transceivers and optimal transceiver count a common architecture across mid range and high end ultrascale families allows developers to scale for 100g and 400g systems defense grade amd artix 7 xq fpgas offer low power small form factor programmable logic 6 6 gb/s transceivers m temp 55 c to 125 c and ruggedization for defense a d the xilinx 7 series fpga families protect ip investments and enable portable fpga based designs that can span high volume to ultra high end applications unified with a single architecture the xilinx artix 7 kintex 7 and virtex 7 fpga the artix 7 fpga delivers the industry s most integrated type 1 single chip cryptography scc solution for superior secure swap c results extensive dsp resources allow for waveform processing capacity to integrate both modem and cryptographic engine on a single chip the arty a7 is a ready to use development platform designed around the xilinx artix 7 fpga family with the artix 7 devices the arty a7 board provides the highest performance per watt fabric transceiver line rates dsp

processing and ams integration in the arty family xilinx xa artix 7 automotive fpgas are optimized for the low st cost and power with small form factor packaging for high volume automotive applications designer s can leverage more logic per watt co mpared to the spartan 6 family the xilinx artix 7 family of fpgas has redefined cost sensitive solutions by cutting power consumption in half from the previous generation while providing advanced functionality for edge applications designers can leverage twice the logic for the same power budget

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