



FAST, SIMPLE, RISK-FREE
COST REDUCTION

EASYPATH-6 FPGAS

➤ FPGA Cost Reduction Dilemma

- Complex IP and timing requirements make high performance FPGA-to-ASIC conversion a risky challenge
- Design teams have less time to spend on cost reduction conversions because of shorter product lifecycles
- FPGA-to-ASIC conversion requires high NRE charges, consumes development time, and results in an inflexible device

➤ The EasyPath-6 FPGA Solution

- EasyPath-6 FPGAs deliver fast, simple and risk-free Virtex-6 FPGA cost reduction
- EasyPath-6 FPGAs are ready for production in six weeks
- A cost reduction solution with reduced NRE expense and no additional engineering

The Easy Way to Cost Savings

Xilinx EasyPath-6™ FPGAs offer a fast, simple and risk-free solution for cost reducing Virtex-6 FPGA designs. EasyPath-6 FPGAs deliver production volume devices in just six weeks with the lowest total product cost of any FPGA cost reduction solution. The cost savings are also available free of additional design constraints, re-engineering requirements, or re-layout of boards. EasyPath-6 FPGAs are architecturally equivalent to Virtex-6 FPGAs and match the FPGA datasheet specifications for functionality and timing. Unlike ASICs, the EasyPath-6 FPGA silicon requires no-requalification. Additionally, all Xilinx and third-party Intellectual Property (IP) for Virtex-6 FPGAs is supported by EasyPath-6 FPGAs without change or re-verification, and with no additional royalty, conversion or licensing fees.

COST REDUCTION OPTIONS

COST DRIVERS	EASYPATH-6 FPGA	STRUCTURED ASICS	STANDARD CELL ASICS
Time-to-Market	Fastest	Slow	Slowest
Design Effort/Cost	None	Medium	High
Re-Spin Risk	None	High	High
Qualification Costs	None	High	High
Opportunity Cost	None	High	Highest
NRE	Lowest	High	Highest

Six-Weeks to Cost Reduction

EasyPath-6 FPGAs are the fastest path to cost reduction for any FPGA based design. It takes only six weeks to convert your final Virtex-6 design files into cost reduced EasyPath-6 devices ready to be shipped in production volume quantities. Cost reduction in six weeks means the cost savings start accruing right away. Additionally, the quick time to market enables rapid response to changing market requirements and dynamic market forecasts and maximizes revenue opportunities.

No Minimal Order Quantities

EasyPath-6 FPGAs are available under the same flexible terms and conditions as Virtex-6 FPGAs and offer cost savings without ASIC like minimum order quantities. The flexibility to order customized quantities minimizes unnecessary inventory build-up and associated costs and enables business plans that are optimized for end-market requirements.

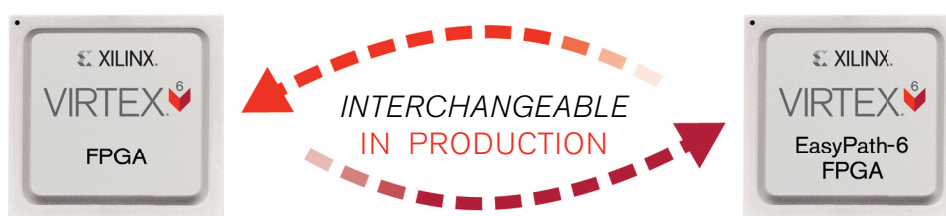
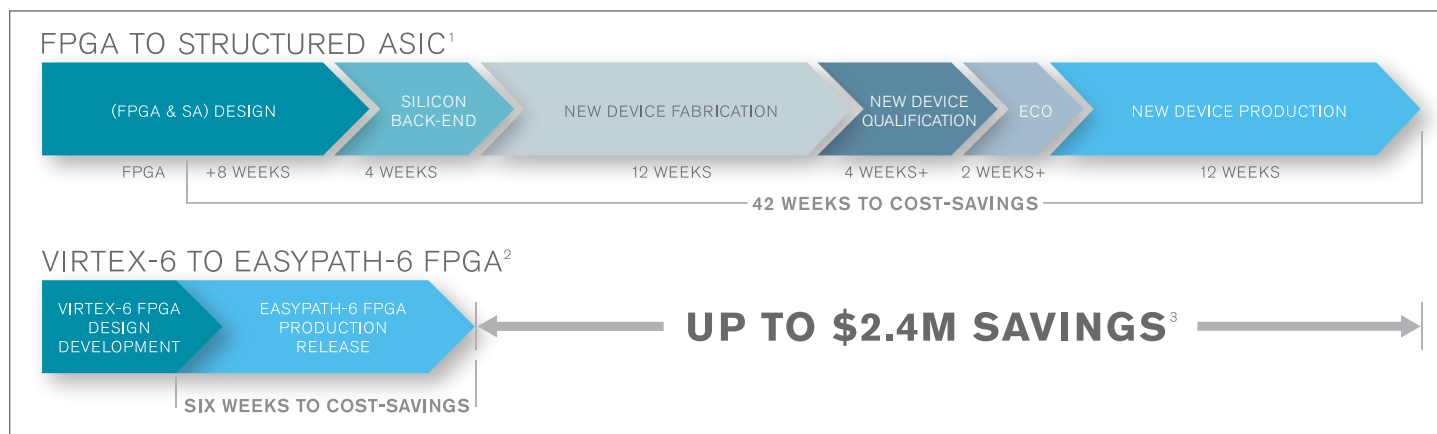
No Re-Engineering or Re-Qualification

EasyPath-6 FPGAs support the same packages and speed grades across commercial and industrial temperatures as Virtex-6 FPGAs. The devices are identical in timing, performance, and features; including the same multi-gigabit serial transceivers, power-optimized GTX up to 6.5Gbps and high-speed GTH beyond 11Gbps. Other identical on-chip features include PCI Express® interface blocks, 10/100/1,000Mbps (Tri-mode) Ethernet MACs, and up to 2,016 DSP slices. This means cost reduction with EasyPath-6 FPGAs is "conversion-free," no additional design or verification work is required unlike an FPGA to ASIC conversion.

Lowest Total Product Cost

EasyPath-6 FPGAs deliver the lowest total product cost by completely eliminating many weeks of extra design, engineering, qualification, and fabrication efforts as well as freeing up valuable engineering resources for deployment on new product opportunities rather than focusing on cost reducing existing products.

TIME-TO-MARKET COMPARISON



Simple to Use

Three Easy Steps to Cost Reduction with EasyPath-6 FPGAs

1. Complete Virtex-6 FPGA design
2. Submit compiled Virtex-6 FPGA design for cost reduction
3. Receive EasyPath-6 FPGAs in six weeks

¹Source: Xilinx and customer estimates.

²Source: Xilinx 100% on-time historical success.

³Savings over FPGA price assuming \$10M annual FPGA expenditure and 36-weeks faster time to cost reduction.

Take the NEXT STEP

Contact your Xilinx Sales Representative for more information.

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Printed in the U.S.A. PN-411-1