Programmable Solutions Advantages

Spartan-II FPGAs: Programmable ASSP

- 100,000 system gates at under \$10
 - Extensive features: Block RAM, DLL, SelectI/O
- IP portfolio allows replacement of traditional ASSPs
 - Provide density, features, performance at ASIC prices
 - IP cores
 - DCT/IDCT, DES, QDR SRAM, Reed-Solomon, PCI
 - See IP Center for additional cores

Spartan-II FPGA with IP provides Programmable ASSP





Programmable ASSP - Value

- Benefits
 - Time to Market
 - Flexibility

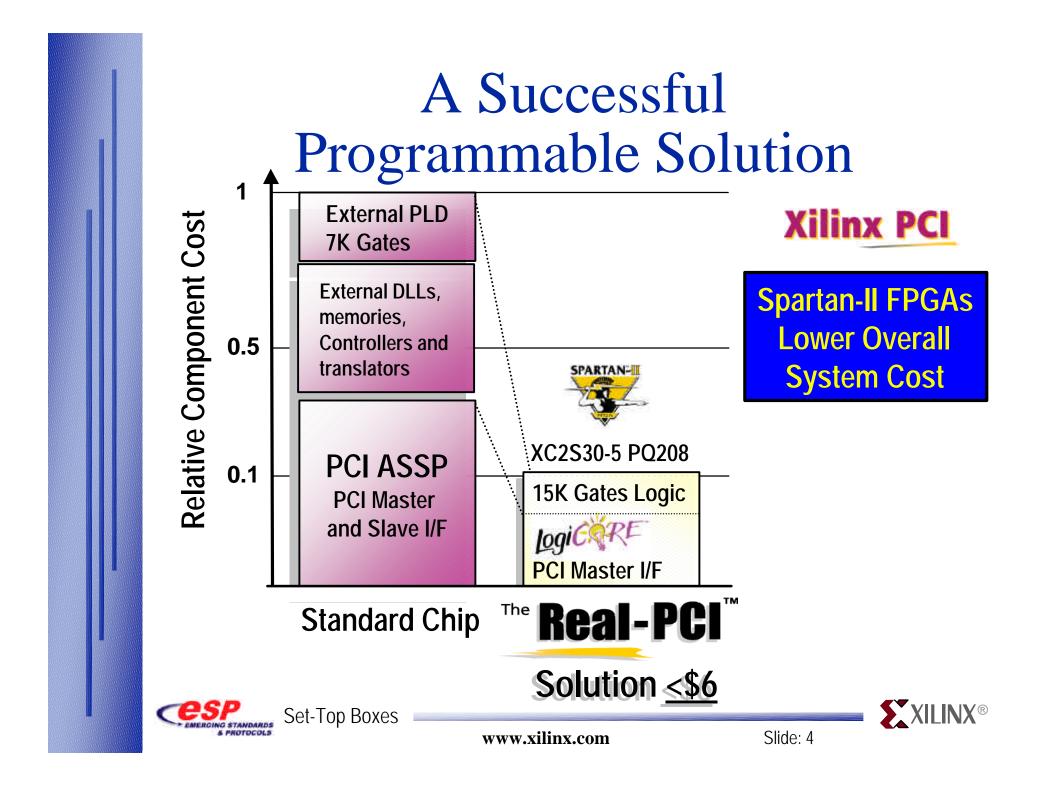


- Product customization to meet customer needs
- Adapt to specification updates
- Feature upgrades
- Low risk evaluation of new markets
- Field upgradability
 - H/W and S/W upgradability opens new applications
- Efficiently address lower volume strategic applications
- Distribution and inventory management



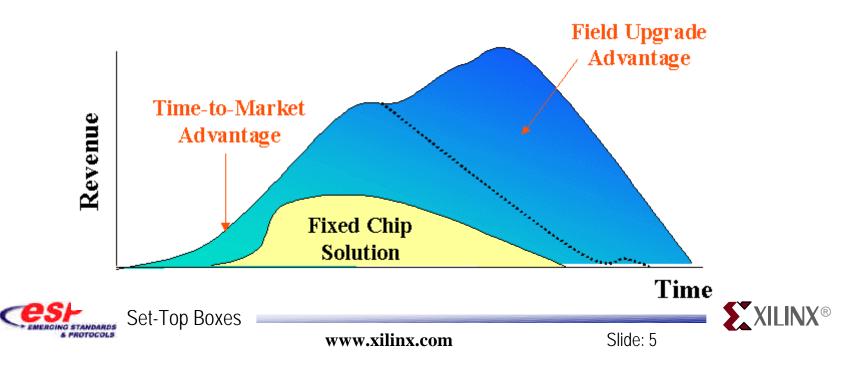


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Xilinx On-line Field Upgradability

- Remote update of software and hardware
- Results in increased lifetime for a product
- Enable product features per end-user needs
 Opening up new opportunities in the ASSP area



Programmable Logic Solutions in Set-Top Boxes

- Glue Logic
 - Between Host CPU and I/O Devices
 - Interface Between Multiple Front-ends and Back-ends
 - Interface between ASSPs
- Clock Distribution
- Memory Controller and Buffer
- ASSP Replacement





Spartan-II Enables Advanced Features Not Found in ASSPs

- Disk Drive Storage of Broadcast Channels
- ASSPs will be Developed with this Interface but will take 12 Months
- ASICs could be Spun in 6 Months
- FPGA could be Designed and Integrated in 1-2 Months





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Spartan-II Enhancing Advantages of Programmable Logic

- Time to Market
- Flexibility
- Field Upgradable
- Cost Competitive





