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## Application Notes

- [AN 73 Implementing FIR Filters in FLEX Devices](#)
- [AN 84 Implementing fft with On-Chip RAM in FLEX 10K Devices](#)
- [AN 86 Implementing the pci\\_a Master/Target in FLEX 10K Devices](#)
- [AN 98 Comparing Performance of Common Megafunctions](#)
- [AN 101 Improving Performance in FLEX 10K Devices with the Synplify Software](#)

## Brochures

- [Corporate Brochure](#)
- [MegaCore Functions Brochure](#)

## Catalogs

- [AMPP Catalog](#)
- [LPM Quick Reference Guide](#)

## Customer Applications

- [Bailey Controls Uses Megafunctions to Solve the PCI Challenge Customer Application](#)

## Data Sheets

- [a16450 Universal Asynchronous Receiver/Transmitter Data Sheet](#)
- [a6402 Universal Asynchronous Receiver/Transmitter Data Sheet](#)
- [a6850 Asynchronous Communications Interface Adapter Data Sheet](#)
- [a8237 Programmable DMA Controller Data Sheet](#)
- [a8251 Programmable Communications Interface Data Sheet](#)
- [a8255 Programmable Peripheral Interface Adapter Data Sheet](#)
- [a8259 Programmable Interrupt Controller Data Sheet](#)
- [fft Fast Fourier Transform Data Sheet](#)
- [FLEX 10K PCI Prototype Board Data Sheet](#)
- [PCI Master/Target MegaCore Function with DMA Data Sheet](#)

pci\_b PCI Master/Target MegaCore Function Data Sheet  
pcit1 PCI Target MegaCore Function Data Sheet  
RGB2YCrCb & YCrCb2RGB Color Space Converters Data Sheet

### Functional Specifications

FS 1 FIR Filters  
FS 2 fp\_add\_sub Floating-Point Adder/Subtractor  
FS 3 Integer Dividers  
FS 4 fp\_mult Floating-Point Multiplier  
FS 5 round Data Word Rounder  
FS 6 saturate Data Word Saturator  
FS 7 fft\_on\_chip Fast Fourier Transform

### General Information

Introduction (to the Altera *1998 Data Book*)  
Introduction to Megafunctions  
Ordering Information

### Selector Guides

Megafunctions Selector Guide

### Solution Briefs

SB 1 Reed-Solomon CODEC Megafunction  
SB 2 High-Speed Adaptive FIR Filter Megafunction  
SB 3 Biquad IIR Filter Megafunction  
SB 4 Complex Multiplier/Mixer Megafunction  
SB 5 Numerically Controlled Oscillator Megafunction  
SB 6 PCI Bus Target Megafunction  
SB 8 ADPCM Megafunction  
SB 9 Discrete Cosine Transform Megafunctions  
SB 10 Digital Modulator Megafunction  
SB 11 Linear Feedback Shift Register Megafunction  
SB 12 Fast Fourier Transform MegaCore Function  
SB 13 Speedbridge Megafunction

- SB 14 Decimating Filter Megafunctions
- SB 15 Biorthogonal Wavelet Filter Megafunction
- SB 16 Convolutional Interleaver Megafunction
- SB 17 Early/Late Gate Synchronizer Megafunction
- SB 18 Binary Pattern Correlator Megafunction
- SB 19 EC210 PCI Bus Master/Target Megafunction
- SB 20 PCI Bus Master/Target MegaCore Function
- SB 21 a8259 Programmable Interrupt Controller MegaCore Function
- SB 22 CAN Bus Megafunction
- SB 23 Microperipheral MegaCore Library
- SB 25 PCI Bus Target Interface Megafunction
- SB 26 PCI Bus Master/Target Interface Megafunction
- SB 27 RGB2YCrCb & YCrCb2RGB Color Space Converter MegaCore Functions
- SB 28 USB Host Controller Megafunction
- SB 30 crc MegaCore Function Parameterized CRC Generator/Checker
- SB 31 I<sup>2</sup>C Interface Megafunctions
- SB 32 Telephony Tone Generation Megafunction
- SB 33 Viterbi Decoder Megafunction
- SB 34 IDR Deframer Megafunction
- SB 35 ATM Cell-Based UTOPIA Level 1 Interface Megafunction
- SB 36 IEEE 1394-Compatible LLC-I Megafunction
- SB 37 64-Bit PCI Bus Target Megafunction

## **Technical Briefs**

- TB 24 The Advantages of LPM

## **User Guides**

- PCI MegaCore Function User Guide