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Application Note: Virtex-8, Virtex-8 Pro, and Spartan-3 Families

XILINX
 XAPP774 (v1.2) February 23, 2006
Connecting Xilinx FPGAs to Texas Instruments ADS527x Series ADCs
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Summary
 This application note describes how to connect a high-speed Texas Instruments (TI) ADS5273 analog-to-digital converter (ADC) with serialized LVDS output to a Virtex™-8 or Virtex-8 Pro FPGA. Lower speed ADC devices from this family can be connected to Spartan™-3 FPGAs.

Introduction
 Texas Instruments has an 8-channel, 12-bit ADC family with synchronous LVDS outputs. The performance rates of these ADCs range from 40 MSPS to 70 MSPS. This family fits nicely with the LVDS I/Os of the Virtex-8, Virtex-8 Pro, and Spartan-3 devices.
 To highlight the performance of both the ADC and the FPGA, the reference design described in this application note uses the ADS5273, which is the highest speed sampling ADC. The ADS5273 interfaces to an XC7VX550-4FG256 device (a TI Texas Instruments demo board) and to an XC7VX550-4FG256 device (a TI Xilinx demo board).

ADS527x ADCs
 The ADS527x components are 8-channel, 12-bit analog-to-digital converters with serialized LVDS interfaces and sample rates from 40 MSPS to 70 MSPS. This section summarizes their features and applications. For complete information, refer to the TI website at: <http://www.ti.com/semiconductors/adc/ads5273/ads5273-12bit-120-250mhz-8ch-12bit-ads5273>

- Features**
 The key features of the ADS527x family are:
- Maximum sample rate of 40 MSPS (ADS5273), 50 MSPS (ADS5271), 65 MSPS (ADS5272), and 70 MSPS (ADS5273)
 - 12-bit resolution
 - No missing codes
 - Power dissipation of 1.1W
 - CMOS technology
 - Simultaneous sample and hold
 - 70.5 dB signal-to-noise ratio (SNR) on a 10 MHz interface
 - Serialized LVDS outputs meet or exceed the requirements of the ANSI/TIA/EIA-644-A standard
 - Internal and external references
 - 3.3V digital/analog supply
 - TQFP-80 PowerPAD package

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Table 2-3: Available Integrated Blocks for PCI Express

Device Selection		Integrated Block for PCI Express Location			
Device	Package	X0Y0	X0Y1	X0Y2	X0Y3
XC7VX330T	FFG1157	Yes	Yes		
	FFG1761				
XC7VX415T	FFG1157	Yes	Yes		
	FFG1158				
	FFG1927				
	FFV1157				
XC7VX550T	FFG1158		Yes	Yes	
	FFV1157				
	FFV1158				
	FFV1927				
XC7VX690T	FFG1157		Yes	Yes	
	FFG1158				
	FFG1930				
	FFG1761				
	FFG1926				
XC7VX980T	FFG1926	Yes	Yes	Yes	
	FFG1928				
	FFG1930		Yes	Yes	
XC7VX1140T	FLG1926	Yes	Yes	Yes	
	FLG1928	Yes	Yes	Yes	Yes
	FLG1930		Yes	Yes	
XC7VH580T	FLG1155	Yes			
	FLG1931	Yes	Yes		
XC7VH870T	HCG115				
	FLG1932	Yes	Yes	Yes	
XQ7VX330T	HCG1931				
	RF1157	Yes	Yes		
	HCG1932				
	RF1761	Yes	Yes		

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