NEW	PRODUCT
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Digilent Part Number

410-396

OVERVIEW

Product Name: Zmod ADC 1410: SYZYGY-compatible Dual-channel 14-bit Analog-to-Digital Converter Module

Product Subtitle: TBA

Product Description: The Zmod ADC is one of Digilent's first SYZYGY-compliant expansion modules. The SYZYGY standard offers a much higher speed/bandwidth digital interface than Pmods, but at a much smaller and lower-cost form-factor than FMC, enabling the user to configure an FPGA development board with the right I/O for their application. Driven by the SYZYGY carrier, the Zmod ADC can acquire two simultaneous signals (1M Ω , ±25V, single-ended, 14-bit, 100MS/s, 70MHz+ bandwidth). Analog inputs can be connected to a circuit using SMA cables.

When coupled to a base board using SYZYGY expansion, like the Eclypse Z7 or Genesys ZU, the combination will serve as a powerful prototyping platform for instrumentation, high-speed control, and SDR products. By utilizing these expansion capabilities, users can spend more time on the analytical and system-level aspects of the solution rather than having to focus on the component-level interactions of the devices.

Key Search Terms: Syzygy, high speed, Analog, Digital,	Video Link: TBA
Analog Devices, ADC, Zmods, Zynq, Ultrascale+, MPSoC, SDR	
Software-Defined Radio, Instrumentation, Radio Frequency,	
RF	

Datasheet: https://reference.digilentinc.com/reference/pmod/pmodpir/reference-manual

Demo / Project Links: TBA

Features

- Channels: 2 • Channel type: single ended Resolution: 14-bit • Input range: ±1V (High Gain) or ±25V (Low Gain) • Absolute Resolution 0.13mV (High Gain) or 3.21mV (Low Gain) • Sample rate (real time): 100MS/s • Input impedance: 1MΩ||18pF • Analog bandwidth: 70 MHz+ @ 3dB, 30 MHz @ 0.5dB, 20 MHZ • @ 0.1dB Image Links: Input protected to: ±50V **Target Applications** TBA • Related Products
 - https://flic.kr/p/2hwU9oR (Oblique0
 - https://flic.kr/p/2hwWTEK (Top)
 - Eclypse Z7 (410-393)
 - **Genesys ZU**

Product Image