



Zmod DAC 1411: SYZYGY-compatible Dual-channel 14-bit Digital-to-Analog Converter Module

SKU: 410-397

The Zmod DAC 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 DAC can simultaneously generate two $\pm 5V$ signals with 14 bits of resolution at a sample rate up to 100MS/s. The analog outputs can be connected to a circuit using SMA cables.

When coupled to a base board using SYZYGY expansion, like the **Eclipse 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.

Features:

- Channels: 2
- Channel type: single-ended
- Resolution: 14-bit
- Absolute Resolution (amplitude $\leq 1.25\text{V}$): $167\mu\text{V}$
- Absolute Resolution (amplitude $> 1.25\text{V}$): $665\mu\text{V}$
- Output impedance: 50Ω
- Sample rate (real time): 100MS/s .
- AC amplitude (max): $\pm 5\text{ V}$.
- Analog bandwidth: $40\text{ MHz @ } 3\text{dB}$, $20\text{ MHz @ } 0.5\text{dB}$, $14\text{ MHz @ } 0.1\text{dB}$
- Slew rate (2V step): $180\text{V}/\mu\text{s}$

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