

# Zmod DAC 1411 Module

## Product Overview

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## Description

Digilent Zmod DAC 1411 Module is a SYZYGY™ compatible dual-channel, 14-bit digital-to-analog converter module. This SYZYGY compatible module offers a higher speed/bandwidth digital interface than Pmods, but at a much smaller and lower-cost form factor than FMC. The Zmod DAC 1411 module 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. The combination of the SYZYGY expansion like Eclypse Z7 or Genesys ZU, when coupled with a baseboard, will serve as a powerful prototyping platform for instrumentation, high-speed control, and SDR. By utilizing these expansion capabilities, users can spend more time on the analytical and system-level aspects of the solution rather than focusing on the component-level interactions of the devices.

## Features

- 2 channels
- Single-ended channel type
- 14-bit resolution
- $167\mu V$  absolute resolution (amplitude  $\leq 1.25V$ )
- $665\mu V$  absolute resolution (amplitude  $> 1.25V$ )
- 100MS/s sample rate (real-time)
- $50\Omega$  output impedance
- 40MHz+ at 3db, 20MHz at 0.5db, 14MHz at 0.1db analog bandwidth
- $180V/\mu s$  slew rate (2V step)
- $\pm 5V$  AC amplitude (max.)

## Mouser Part Number

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