


<b>NEW PRODUCT</b>	 A National Instruments Company	<i>Release Year</i> 2019	<i>Released Quarter</i> Q4
<i>Digilent Part Number</i> 410-393		<i>Category</i> FPGA	

## OVERVIEW

**Product Name:** Eclipse Z7: Zynq-7000 SoC Development Board with SYZYGY-compatible Expansion

**Product Subtitle:** TBA

**Product Description:** The Eclipse Z7 is Digilent's newest FPGA/SoC designed to enable systems that are ultra high-speed and highly modular, featuring Xilinx's Zynq-7000 PSoC. Zynq, plus the Zmod expansions and Digilent's new software architecture results in a powerful research and prototyping platform optimized for productivity and accelerated design flow, making it the perfect product for instrumentation applications such as software defined radio, ultrasound, medical technology, and much more. As a host board for Zmods, the open-source SYZYGY-compliant expansion modules, Eclipse Z7 is designed to be highly flexible without the overhead of starting designs from scratch. Check out our Zmod ADC 1410 and Zmod DAC 1411 for more information!

Users can get started with the Eclipse Z7 immediately as Petalinux is supported right out of the box. Pre-built Linux images are accompanied by a software API for bulk data transfer. Digilent offers fully open and customizable hardware designs, Linux images, and Linux software applications.

**Key Search Terms:** TBA

**Video Link:** TBA

**Datasheet:** TBA

**Demo / Project Links:** TBA

### Features

- Zynq 7020 SoC
- 2x SYZYGY standard interface connectors for Zmod expansion
  - Standard supports data rates of up to 500 MHz
- 125 MHz oscillator connected to Zynq PL for PL-only designs
- 2x Pmod connectors for Pmod expansion
- Micro USB port for USBUART and JTAG programming
- JTAG programming header
- Programming mode select jumper: JTAG, QSPI, SD
- Ethernet connector with 10/100/1000 Ethernet PHY
- Micro USB connector for user USB Host/Device/OTG
- MicroSD card slot
- Power jack
- 12V, up to 5A
- 2x user RGB LEDs, 2x user buttons

### Target Applications

- TBA

### Product Image



### Image Links:

- <https://flic.kr/p/2hwUhvn> (Oblique)
- <https://flic.kr/p/2hwUhxg> (Top)

### Related Products

- Zmods ADC (410-396)
- Zmods DAC (410-397)