


<b>NEW PRODUCT</b>	 A National Instruments Company	<i>Release Year</i> Q3	<i>Released Quarter</i> 2020
<i>Digilent Part Number</i> 360-076		<i>Category</i> FPGA	

## OVERVIEW

**Product Name:** Trenz TE0802: Zynq UltraScale+ MPSoC Development Board

**Product Subtitle:** Cost-optimized and excellent choice of getting started with ZU2CG UltraScale+ MPSoC

**Product Description:** Designed and manufactured by our partner, Trenz Electronic, the TE0802 is a development board integrating a Xilinx Zynq UltraScale+ MPSoC device. The board features SDRAM DDR4 8GB memory, multiple connectivity interfaces, including DisplayPort, VGA, USB 3.0, and Gigabit Ethernet RJ45. The versatile onboard I/O, including push buttons, slide switches, a seven-segment LED display, and 12-pin Pmod connectors, provide everything you need in one convenient package. TE0802 is fully compatible with Xilinx's high-performance Vivado® Design Suite HL WebPACK™ Edition and comes with Vivado and Petalinux example projects. Embedded developers and engineers can get started in applications such as industrial motor control, sensor fusion, IoT, Real-time I/O, and medical devices.

**Key Search Terms:** Zynq Ultrascale+, XCZU2CG, Trenz, Xilinx, FPGA, MPSoC, Vitis, Embedded, Displayport, VGA, USB3.0, Ethernet, ARM, Cortex, Processors, CPU, Pmod, SDRAM DDR4, SSD PCIe

**Video Link:** N/A

**Datasheet:** <https://wiki.trenz-electronic.de/display/PD/TE0802+TRM>

**Demo / Project Links:** <https://wiki.trenz-electronic.de/display/PD/TE0802+Reference+Designs>

### Features

- MPSoC: XCZU2CG - Xilinx Zynq UltraScale+ MPSoC
- RAM/Storage:
  - SDRAM: LPDDR4 8Gb 256Mx16x 2
  - SPI Flash 256Mb (32M x 8) 133 MHz
  - EEPROMs 2Kb (256 x 8)
  - microSD Card Slot
- Interfaces:
  - 1GB Ethernet RJ45
  - USB 3.0 Host (Type A Connector)
  - M.2 SSD PCIe
  - Display Port
  - VGA
  - 3.5 mm Earphone Jack (PWM Output)
  - Two 12-pin Pmod Connectors
  - USB JTAG/UART microUSB
  - GPIO – SSD, LEDs, Pushbuttons, Slide Switches
- Power
  - 5 V +/- 10%
  - ~3.5 W
  - 3A recommended for board startup
  - 2.1mm inner diameter/5.5mm outer diameter barrel jack plug
- Dimensions: 100mm x 100mm

### Product Image



### Image Links:

- [https://drive.google.com/file/d/1cQlHy6YtcZ5N6iP5gV0Kj0HdIO\\_WXNAI/view?usp=sharing](https://drive.google.com/file/d/1cQlHy6YtcZ5N6iP5gV0Kj0HdIO_WXNAI/view?usp=sharing) (Bottom)
- [https://drive.google.com/file/d/1jldbFefqP4f\\_z2KoaIn5yoB-dPOJmPi8/view?usp=sharing](https://drive.google.com/file/d/1jldbFefqP4f_z2KoaIn5yoB-dPOJmPi8/view?usp=sharing) (Oblique)
- <https://drive.google.com/file/d/1mD3dW02oWinmlbkPGwnwXp8Fc1KSFAQu/view?usp=sharing> (Top)

### 3 Target Applications

- Sensor Fusion
- IoT
- Motor Control

### Related Products

- Genesys ZU-3EG (410-383-3EG)
- All Pmods