

# UltraZed-EV Carrier Card



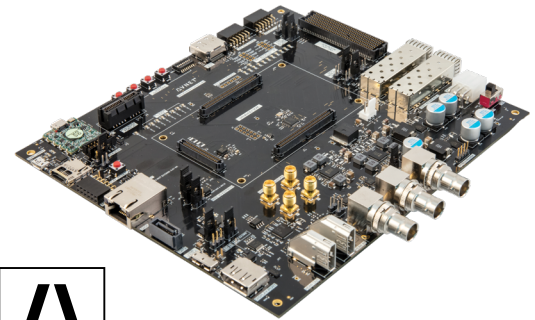
The UltraZed-EV Carrier Card supports the UltraZed-EV™ System-on-Module (SOM), providing easy access to the full 152 user I/O, 26 PS MIO, 4 PS GTR transceivers, and 16 GTH transceivers available from the UltraZed-EV SOM via three Micro Headers. Two 200-pin Micro Headers on the carrier card mate with the UltraZed-EV SOM, connecting 152 of the UltraZed-EV Programmable Logic (PL) I/O along with 16 GTH transceivers to FMC HPC slot, LVDS Touch Panel interface, SFP+ interface, HDMI In/Out, 3G-SDI In/Out, push button switches, DIP switches, LEDs, Xilinx SYSMON, clock generators, and 2 Digilent Pmod™ compatible interfaces.

The UltraZed-EV Carrier Card also uses a 120-pin Micro Header to gain access to the UltraZed-EV SOM Processing System (PS) MIO and GTR transceiver pins as well as USB 2.0 and Gigabit Ethernet interfaces. The UltraZed-EV SOM PS MIO and GTR pins are used on the UltraZed-EV Carrier Card to implement the microSD card, PMOD, USB 2.0/3.0, Gigabit Ethernet, SATA host, Display Port, PCIe Root Port, dual USB-UART, user LED and switch, and MAC Address device interfaces.

The UltraZed-EV Carrier Card also provides several power rails to the UltraZed-EV SOM including the 12V main input voltage, user selectable bank voltages for the PL I/O (VCCOs), and the necessary voltages for the GTR and GTH transceivers. The UltraZed-EV Carrier Card is a great vehicle for validating the UltraZed-EV SOM and provides an excellent starting point for creating your own UltraZed-EV custom carrier card.

## FEATURES

- Single UltraZed-EV SOM slot
- microSD card connector
- PS PMOD header
- Dual USB-UART
- DisplayPort connector
- USB 2.0/3.0 connector
- SATA 3.0 host interface
- PCIe Gen2 x1 Root Port
- RJ45 connector
- 2 PL PMOD headers
- PL user DIP and Push switches
- PL user LEDs
- PS user LED
- PMBus header
- PS VBATT battery
- SOM reset switch
- Differential clock generator
- Digilent USB-JTAG module
- PC4 JTAG header
- I2C MAC Address device
- LVDS Touch Panel interface
- HDMI In/Out Interfaces
- 3G-SDI In/Out Interfaces
- Dual SFP+ interfaces
- FMC HPC slot
- 3 JX micro connectors (2 x 200-pin, 1 x 120-pin) providing the following connections to the UltraZed-EV SOM:
  - 152 user PL I/O pins
  - 26 user PS MIO pins (one full MIO bank)
  - 4 PS GTR transceivers
  - 4 PS GTR reference clock inputs
  - 16 PL GTH transceivers
  - 8 PL GTH reference clock inputs
  - PS JTAG interface
  - PL SYSMON interface
  - USB 2.0 connector interface
  - Gigabit Ethernet RJ45 connector interface
  - PMBus interface
  - SOM PS VBATT battery input
  - Carrier Card I2C interface
  - SOM Reset input, SOM Power Good output, and Carrier Card Reset output
  - Carrier Card interrupt input
  - Power and Ground pins



## KIT INCLUDES

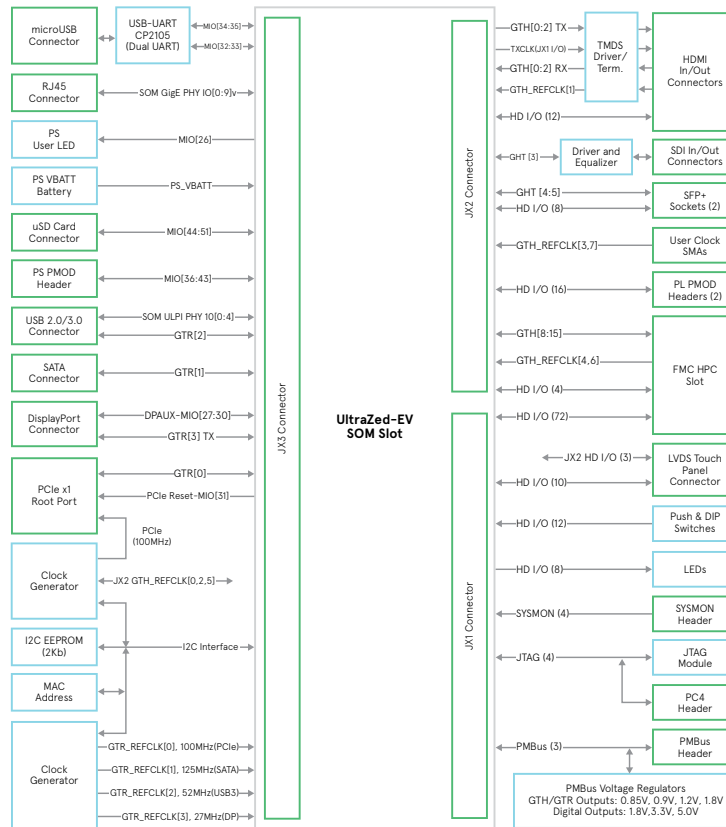
- UltraZed-EV Carrier Card
- 12V AC/DC Power Supply
- Quick Start Card
- microUSB Cable
- UltraZed-EV SOM Mounting Hardware
- microSD Card 8GB
- RJ45 Cable

## TARGET APPLICATIONS

- General UltraZed-EV evaluation and prototyping
- Embedded system-on-module (SOM) applications
- Video applications
- Test & measurement

To purchase this kit, visit [www.ultrazed.org/product/ultrazed-ev-carrier-card](http://www.ultrazed.org/product/ultrazed-ev-carrier-card)

## BLOCK DIAGRAM



## FEATURED MANUFACTURERS



## PARTS

Part Number	Description	Resale
AES-ZUEV-CC-G	UltraZed-EV Carrier Card	\$649

## RELATED PARTS

Part Number	Description	Resale
AES-ZU7EV-1-SOM-G	UltraZed-EV SOM (Extended Temp)	\$999 USD
AES-ZU7EV-1-SOM-I-G	UltraZed-EV SOM (Industrial Temp)	\$1,199 USD

Countries Available for Purchase: Americas, EMEA, Asia, Japan

## CONTACT INFORMATION

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