

# The UltraZed-EG™ Starter Kit

The UltraZed-EG™ Starter Kit consists of the UltraZed-EG System-on-Module (SOM) and IO Carrier Card bundled to provide a complete system for prototyping and evaluating systems based on the Xilinx powerful Zynq® UltraScale+™ MPSoC device family.

## ULTRAZED-EG SOM

UltraZed-EG SOM is a highly flexible, rugged, System-On-Module (SOM) based on the Xilinx Zynq® UltraScale+™ MPSoC. Designed in a small form factor, the UltraZed-EG SOM packages all the necessary functions such as system memory, Ethernet, USB, and configuration memory needed for an embedded processing system. The UltraZed-EG provides easy access to 180 user I/O pins, 26 PS MIO pins, and 4 high-speed PS GTR transceivers along with 4 GTR reference clock inputs through three I/O connectors on the backside of the module.

Available with the Zynq UltraScale+ MPSoC **XCZU3EG-SFVA625** device, the UltraZed-EG SOM enables designers to build high-performance systems with confidence and ease. By simply plugging the off-the-shelf UltraZed-EG SOM into an application specific carrier card such as the Avnet IO Carrier Card, system bring-up and debug time can be cut in half, while overall system cost can be reduced by 20% or more versus a standard chip-down design.

For more information, please refer to the UltraZed-EG SOM Product Brief on the [www.ultrazed.org](http://www.ultrazed.org) website.

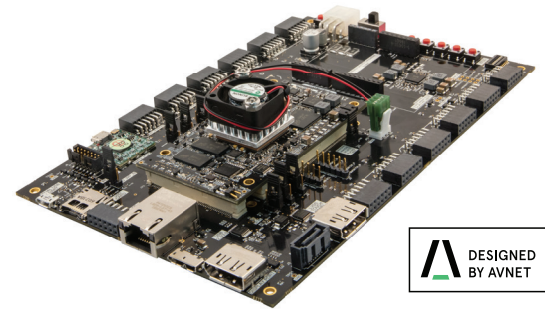
## ULTRAZED IO CARRIER CARD

The UltraZed IO Carrier Card supports the UltraZed-EG System-on-Module (SOM), providing easy access to the full 180 PLV user I/O, 26 PS MIO, and 4 PS GTR transceivers available from the UltraZed-EG SOM via three Micro Headers. Two 140-pin Micro Headers on the carrier card mate with the UltraZed-EG SOM, connecting 180 of the UltraZed-EG Programmable Logic (PL) I/O to 12 Digilent Pmod™ compatible interfaces, Arduino Shield, LVDS Touch Panel interface, push button switches, DIP switches, LEDs, Xilinx SYSMON, and clock oscillator.

The UltraZed IO Carrier Card also uses a 100-pin Micro Header to gain access to the UltraZed-EG SOM Processing System (PS) MIO and GTR transceiver pins as well as USB 2.0 and Gigabit Ethernet interfaces. The UltraZed-EG SOM PS MIO and GTR pins are used on the IO Carrier Card to implement the microSD card, PMOD, USB 2.0/3.0, Gigabit Ethernet, SATA host, Display Port, dual USB-UART, user LED and switch, and MAC Address device interfaces.

For more information, please refer to the UltraZed IO Carrier Card Product Brief on the [www.ultrazed.org](http://www.ultrazed.org) website.

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



## KIT INCLUDES

- UltraZed-EG SOM
- UltraZed IO Carrier Card
- 12V AC/DC Power Supply
- Quick Getting Started Card
- microUSB Cable
- UltraZed-EG SOM Mounting Hardware
- microSD Card 8GB
- RJ45 Cable

## TARGET APPLICATIONS

- General UltraZed-EG evaluation and prototyping
- Embedded system-on-module (SOM) applications
- Test & measurement
- Motor control
- Industrial automation

## FEATURED MANUFACTURERS



## PARTS

Part Number	Description	Resale
AES-ZU3EG-1-SK-G	UltraZed-EG Starter Kit	\$895 USD

## RELATED PARTS

Part Number	Description	Resale
AES-ZU3EG-1-SOM-G	UltraZed-EG SOM	\$485 USD
AES-ZU-IOCC-G	UltraZed IO Carrier Card	\$499 USD

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

## CONTACT INFORMATION

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