UltraZed-EV Starter Kit

AVNET®

Reach Further™

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

ULTRAZED-EV SOM

UltraZed-EV SOM is a high performance, full-featured, System-On-Module (SOM) based on the Xilinx Zynq® UltraScale+™ MPSoC EV family of devices. Designed in a small form factor, the UltraZed-EV SOM on-board dual system memory, high-speed transceivers, Ethernet, USB, and configuration memory provides an ideal platform for embedded video processing systems. The UltraZed-EV provides easy access to 152 user I/O pins, 26 PS MIO pins, 4 high-speed PS GTR transceivers along with 4 GTR reference clock inputs, and 16 PL high-speed GTH transceivers along with 8 GTH reference clock inputs through three I/O connectors on the backside of the module.

Designers can simply design their own carrier card, plug-in UltraZed-EV SOM, and start their application development with a proven Zynq UltraScale+ MPSoC sub-system. Available with the Zynq UltraScale+ MPSoC XCZU7EV-FBVB900 device, the UltraZed-EV SOM enables designers to build multimedia, automotive ADAS, surveillance, and other embedded vision applications with confidence and ease. The MPSoC EV device with its integrated H.264 / H.265 video codec unit is capable of simultaneous encode and decode up to 4Kx2K (60fps).

For more information, please refer to the UltraZed-EV SOM Product Brief on the www.ultrazed.org website.
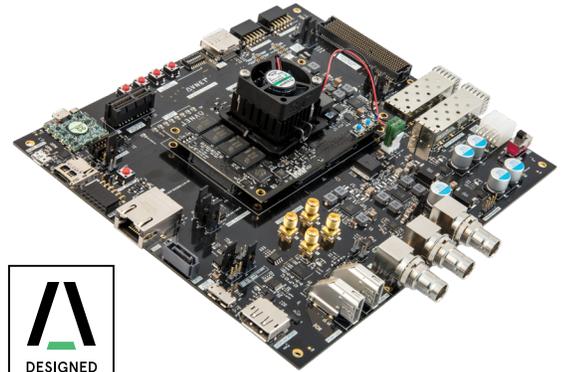
ULTRAZED-EV CARRIER CARD

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.

For more information, please refer to the UltraZed-EV Carrier Card Product Brief on the www.ultrazed.org website.

To purchase this kit, visit www.ultrazed.org/product/ultrazed-ev-starter-kit

DESIGNED BY AVNET

KIT INCLUDES

- UltraZed-EV SOM
- 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
- Test & measurement
- Embedded vision

FEATURED MANUFACTURERS

XILINX ALL PROGRAMMABLE™

Infineon

Micron

MICROCHIP

TE connectivity AUTHORIZED DISTRIBUTOR

maxim integrated™

MARVELL®

samtec

IDT Integrated Device Technology

SILICON LABS

PARTS

Part Number	Description	
AES-ZU7EV-1-SK-G	UltraZed-EV Starter Kit	

RELATED PARTS

Part Number	Description	
AES-ZUEV-CC-G	UltraZed-EV Carrier Card	
AES-ZU7EV-1-SOM-G	UltraZed-EV SOM (Extended Temp)	
AES-ZU7EV-1-SOM-I-G	UltraZed-EV SOM (Industrial Temp)	

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

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