

UltraZed™ IO Carrier Card

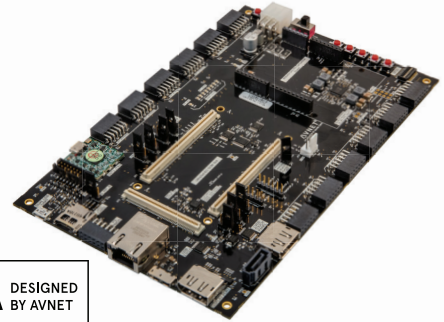
The UltraZed™ IO Carrier Card supports the UltraZed-EG™ System-on-Module (SOM), providing easy access to the full 180 user I/O, 26 PS MIO, and 4 PS GTR transceivers available from the UltraZed-EG SOM via three Micro Headers. Two 140-pin Micro Headers on the carrier card mate with the UltraZed-EG SOM, 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.

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

FEATURES

- Single UltraZed-EG SOM slot
- microSD card connector
- PS PMOD header
- Dual USB-UART
- Display port connector (x2)
- USB 2.0/3.0 connector
- SATA host interface
- RJ45 connector
- 12 PL PMOD headers
- Arduino connectors
- PL user 8-position DIP switch
- 4 PL user push switches
- 8 PL user LEDs
- PS user LED
- PS user push switch
- PMBus header
- PS VBATT battery
- SOM reset switch
- Differential clock generator
- Digilent USB-JTAG module
- PC4 JTAG header
- SYSMON header
- I2C MAC Address device
- LVDS Touch Panel interface
- USB connector (for dual USB-UART)
- 3 JX micro Connectors:
 - 180 user PL I/O pins
 - 26 user PS MIO pins (one full MIO bank)
 - 4 PS GTR transceivers
 - 4 PS GTR 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



COMPATIBLE WITH

/ULTRAZED™

KIT INCLUDES

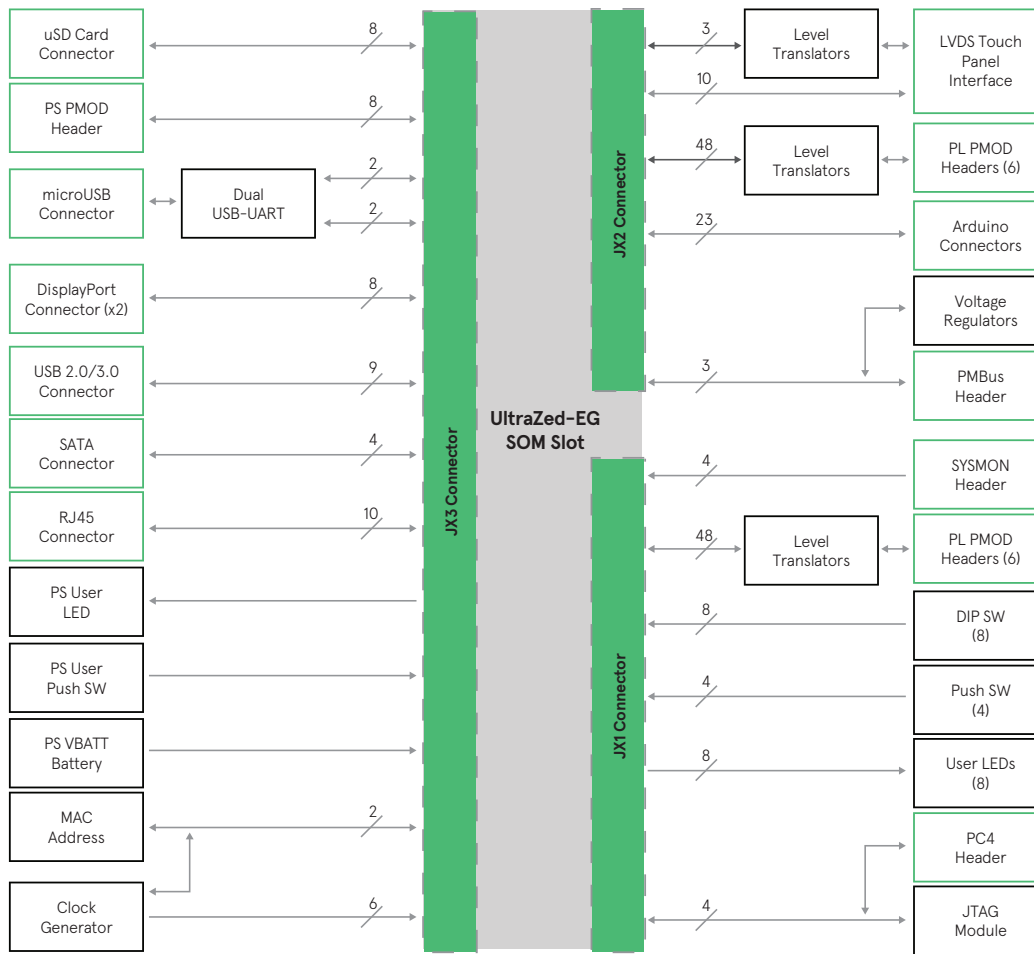
- UltraZed IO Carrier Card
- 12V AC/DC Power Supply
- Quick Getting Started Card
- microUSB Cable
- UltraZed-EG SOM Mounting Hardware
- microSD Card 8GB
- RJ45 Cable

TARGET APPLICATIONS

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

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

BLOCK DIAGRAM



FEATURED MANUFACTURERS



PARTS

Part Number	Description	Resale
AES-ZU-IOCC-G	UltraZed IO Carrier Card	\$499 USD

RELATED PARTS

Part Number	Description	Resale
AES-ZU3EG-1-SOM-G	UltraZed-EG SOM (Extended Temp)	\$485 USD
AES-ZU3EG-1-SOM-I-G	UltraZed-EG SOM (Industrial Temp)	\$535 USD

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

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