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 SYMON, 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 VBATT
- Carrier Card I2C interface
- PS VBATT battery
- PC4 JTAG header
- SYMON 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 SYMON interface
  - USB 2.0 connector interface
  - Gigabit Ethernet RJ45
c  - PMBus interface
  - SOM PS VBATT battery input

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