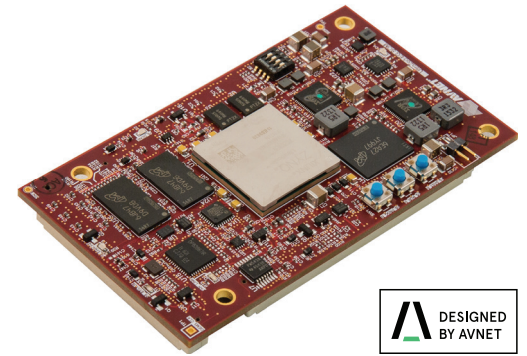


UltraZed-EG™ SOM is a highly flexible, rugged, System-On-Module (SOM) based on the Xilinx Zynq® UltraScale+™ MPSoC. Designed in a small form factor, the UltraZed-EG SOM packages all the necessary functions such as system memory, Ethernet, USB, and configuration memory needed for an embedded processing 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.

Designers can simply design their own carrier card, plug-in UltraZed-EG SOM, and start their application development with a proven Zynq UltraScale+ MPSoC sub-system. 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, 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.

FEATURES

- Xilinx XCZU3EG-1SFVA625 device
- DDR4 SDRAM (2GB, in x32 configuration)
- Dual QSPI Flash (64MB)
- I2C EEPROM (2Kb)
- eMMC Flash (8GB, in x8 configuration)
- USB 2.0 ULPI PHY
- Gigabit Ethernet PHY
- I2C 8-bit I/O expander
- 2-channel I2C switch/mux
- PS reference clock input
- On-board voltage regulators
- Power-On Reset (POR) circuit
- 4-position boot mode DIP switch
- Linux BSP and reference designs
- 3 JX micro-header connectors (2 x 140-pin, 1 x 100-pin) providing the following connections to the Carrier Cards
 - 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
- SOM Reset input
- Carrier Card interrupt input
- Carrier Card Reset output
- Power Good output
- SOM to Carrier Card ground pins
- SOM input voltages and output sense pins



KIT INCLUDES

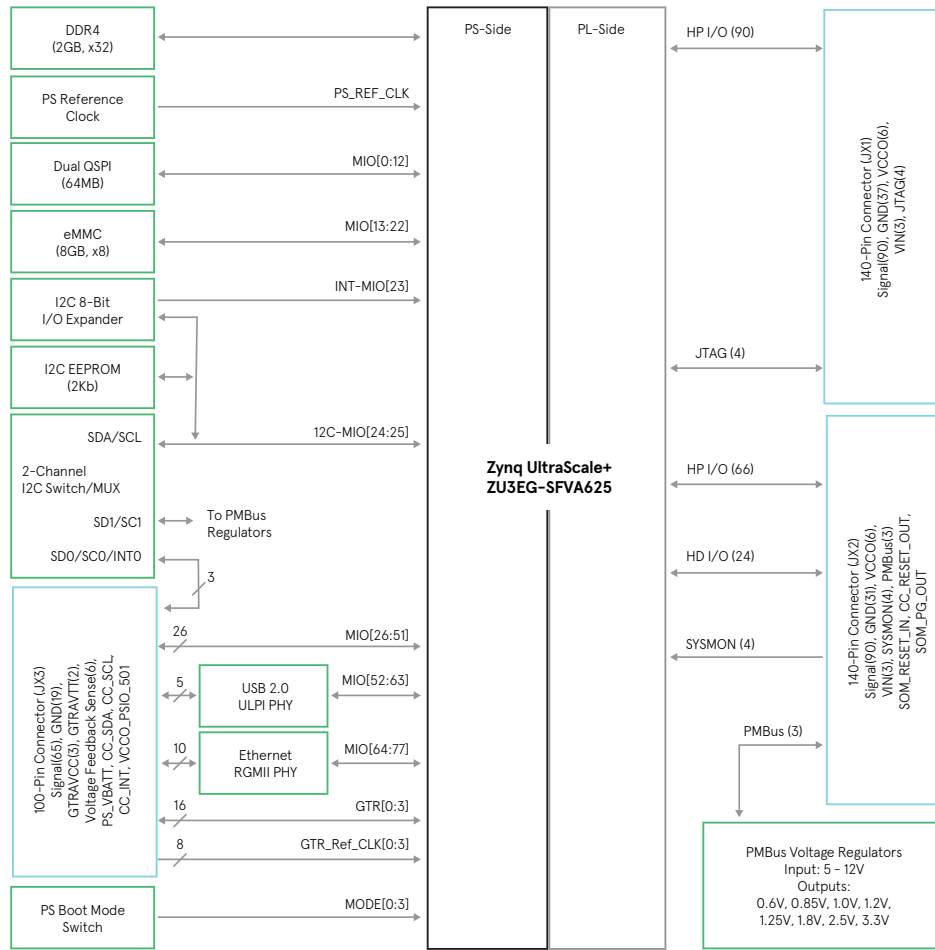
- UltraZed-EG SOM

TARGET APPLICATIONS

- Embedded system-on-module (SOM)
- Embedded vision
- Test & measurement
- Motor control
- Industrial automation

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

BLOCK DIAGRAM



FEATURED MANUFACTURERS



PARTS

| Part Number | Description | Resale |
|---------------------|-----------------|-----------|
| AES-ZU3EGES-1-SOM-G | UltraZed-EG SOM | \$599 USD |

RELATED PARTS

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

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

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