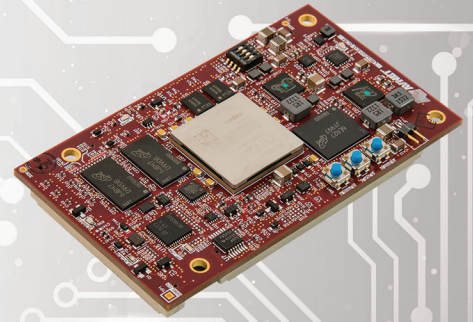


UltraZed-EG SOM



Electronics Marketing



Technology



DESIGNED BY AVNET



ultraZed™

Kit Includes:

- UltraZed-EG SOM

Target Apps:

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

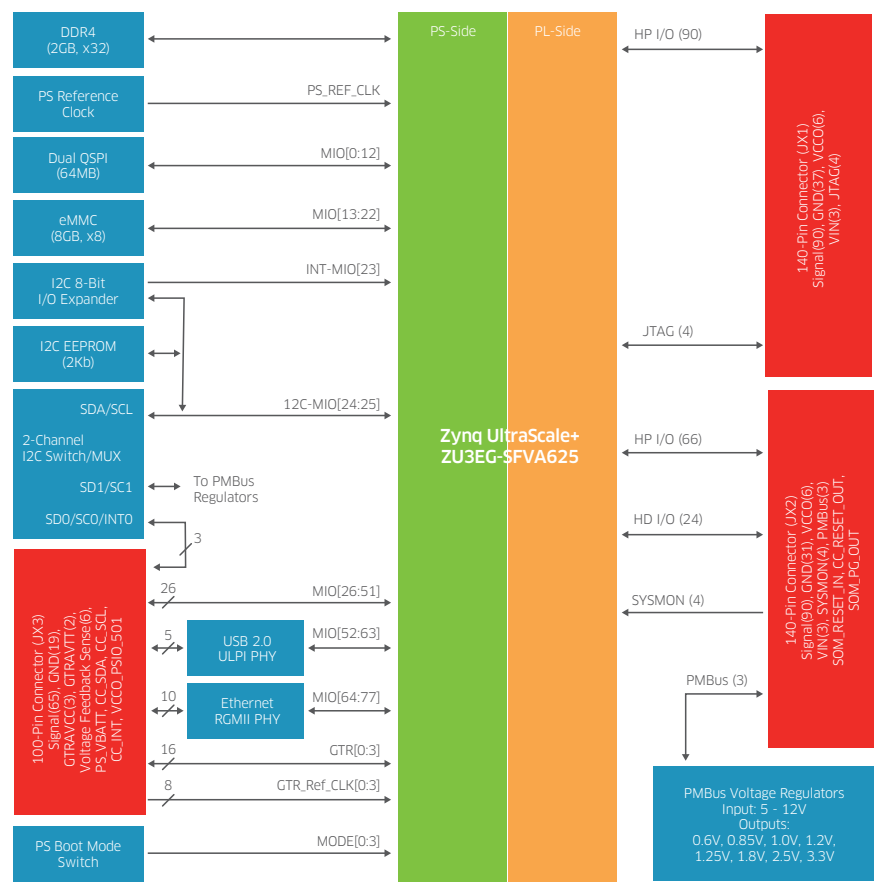
UltraZed-EG™ SOM is a highly flexible, rugged, System-On-Module (SOM) based on the Xilinx Zynq® UltraScale+™ MPSoC. Designed in a small form factor, the UltraZed-EG SOM packages all the necessary functions such as system memory, Ethernet, USB, and configuration memory needed for an embedded processing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

Feature List

- 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

Block Diagram



Featured Manufacturers



Parts:

Part Number	Description	Resale
AES-ZU3EGES-1-SOM-G	UltraZed-EG SOM	\$599.00 USD

Related Parts:

Part Number	Description	Resale
AES-ZU-IOCC-G	UltraZed IO Carrier Card	\$499.00 USD

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



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