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AES-ZU7EV-1-SOM-I-G

SOM Module 6 Core QSPI Flash ARM Cortex A53/ARM Cortex R5F eMMC

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Manufacturer: [Avnet Engineering Services](#)

Product Category: [Embedded Boards & Systems](#), [Embedded Boards](#), [COM/SOM Modules](#)

Avnet Manufacturer Part #: AES-ZU7EV-1-SOM-I-G

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Description

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AES-ZU7EV-1-SOM-I-G is an UltraZed-EV™ SOM is a high performance, full-featured, System-On-Module (SOM) based on the AMD-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 highspeed 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. Targeted for Embedded system-on-module (SOM), Embedded vision, test & measurement, industrial automation applications.

- UltraZed-EV SOM (Industrial Temp) XCZU7EV-1FBVB900I
- PS DDR4 SDRAM (4GB, in x64 configuration), PL DDR4 SDRAM (1GB, in x16 configuration)
- 300MHz LVDS system clock, Dual QSPI flash (64MB), I2C EEPROM (2Kb), eMMC flash (8GB, x8)
- 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, POR circuit, 4-position boot mode DIP switch
- 3 JX connectors, providing the following: 152 user PL I/O pins, 26 user PS MIO pins
- 4 PS GTR reference CLK I/Ps, 16 PL GTH transceiver, 8 PL GTH reference clock I/Ps, PS JTAG interface
- Interface: PL SYSMON, USB 2.0 connector, Gigabit Ethernet RJ45 connector, PMBus
- SOM PS VBATT battery input, carrier card I2C interface, SOM Reset input, carrier card reset output
- Carrier card interrupt input and power good output, input voltages and output sense pins

Technical Attributes

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<input type="checkbox"/>	DESCRIPTION	VALUE
<input type="checkbox"/>	Amount of On-board Storage	512 MB
<input type="checkbox"/>	Amount of Secondary On-board Storage	8 GB
<input type="checkbox"/>	Architecture	ARM
<input type="checkbox"/>	Audio Outputs	1 DisplayPort
<input type="checkbox"/>	Baseboard Connector Type	Board to Board
<input type="checkbox"/>	Ethernet	One 10/100/1000
<input type="checkbox"/>	I2C Bus Support	2
<input type="checkbox"/>	Number of CPU Cores	6
<input type="checkbox"/>	Number of GPIOs	178
<input type="checkbox"/>	Number of Uarts	2
<input type="checkbox"/>	On-board DDR	5, 4 GB
<input type="checkbox"/>	On-board GPU	ARM Mali-400 MP2
<input type="checkbox"/>	On-board Storage Type	QSPI Flash
<input type="checkbox"/>	Processor Core Type	ARM Cortex A53 ARM Cortex R5F
<input type="checkbox"/>	Processor Vendor	AMD
<input type="checkbox"/>	Product Dimensions	102 x 63.5 mm
<input type="checkbox"/>	Secondary On-board Storage Type	eMMC

Tool Tip

Print

In Stock : 2

Refresh Stock

Ships in 1 bus. day

Additional inventory

Factory Lead Time: 22 Weeks

Price for: Each

USD \$:

\$1,299.00

Quantity:

Min: 1 Mult: 1

-

1

+

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<input type="checkbox"/>	Video Inputs	1 HDMI
<input type="checkbox"/>	Video Outputs	1 HDMI

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DESCRIPTION	VALUE
Country of Origin:	United States of America (the)
ECCN:	5A002.A.4
HTSN:	8471500150
Schedule B:	8471500150