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AES-ZU7EV-1-SOM-I-G



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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Lifecycle

Lifecycle

Output

Description:

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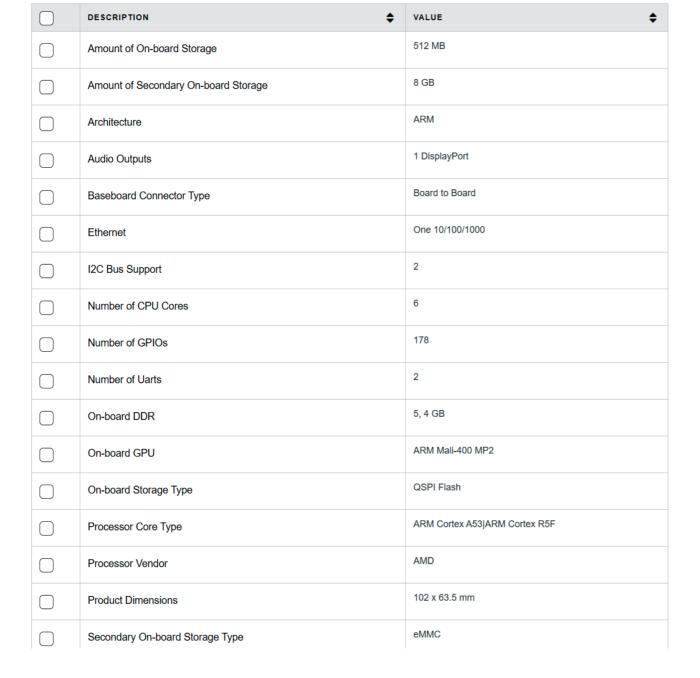
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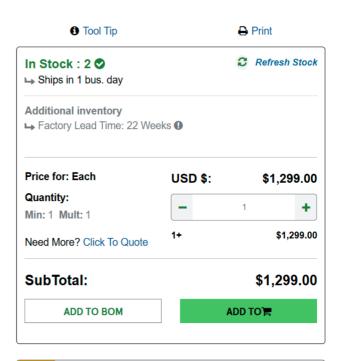
AES-ZU7EV-1-SOM-I-G is an UltraZed-EV™ SOM is a high performance, full-featured, System-On-Module (SOM) based on the AMD-Xilinx Zynq® UltraScale+™ MPSoC EV family of devices. Designed in a small form factor, the UltraZed-EV SOM on-board dual system memory, high-speed transceivers, Ethernet, USB, and 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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Special Features	Pmod
USB	USB2.0 USB3.0
Video Inputs	1 HDMI
Video Outputs	1 HDMI

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ECCN / UNSPSC / COO

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

