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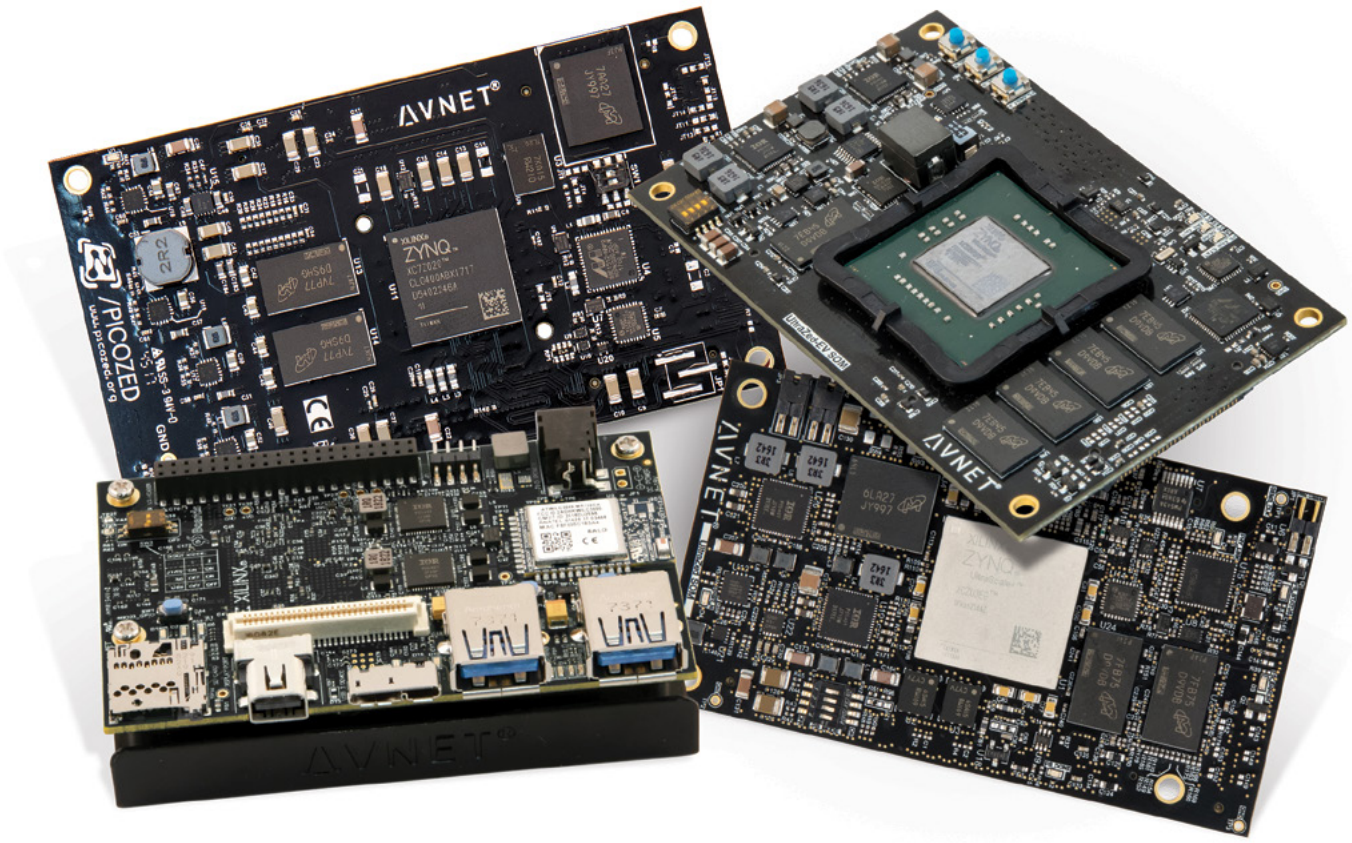


Zynq®-7000 SoC and Zynq® UltraScale+™ MPSoC Systems Guide

FROM CONCEPT TO PRODUCTION

Design it or Buy it?

Avnet's Ready-made SoC Modules Can Shorten Your Development Cycle

Today's quick time-to-market demands are forcing you to rethink how you design, build and deploy your products. Sometimes it's faster, less costly, and lower risk to incorporate an off-the-shelf solution instead of designing from the beginning. Avnet's System-On-Module (SOM) and Single-Board Computer (SBC) solutions for the Xilinx Zynq®-7000 SoC and Zynq UltraScale+ MPSoC SoC can reduce development times by more than four months, allowing you to focus your efforts on adding differentiating features and unique capabilities.

Avnet's SoC Modules Offer the Following Benefits:

- Reduce risk by building your application upon a known working system
- Get running quickly with example designs, tutorials, and board support packages
- Start software development immediately

With over fifteen years of experience building SOM products, we've helped many companies attain a jump start on their products and get to market faster. Contact us today to get started!

Custom SOM Offerings

Customize the module with Avnet Design Services – an Avnet Company with extensive experience designing and customizing single board computer platforms. Email us at customize@avnet.com to explore the options.

Avnet's Zynq-7000 SOC and Zynq Ultrascale+ MPSoC SOM Solutions

Features	PicoZed				MicroZed		UltraZed-EG[4]	UltraZed-EV[5]
	7010	7015	7020	7030	7010	7020	ZU3EG	ZU7EV
Zynq Device	7Z010-1	7Z015-1	7Z020-1	7Z030-1	7Z010-1	7Z020-1	ZU3EG-1	ZU7EV-1
Programmable Logic Cells	28 K	74 K	85 K	125 K	28 K	85 K	154 K	504 K
DDR Memory	1 GB DDR3L	1 GB DDR3L	1 GB DDR3L	1 GB DDR3L	1 GB DDR3	1 GB DDR3	2 GB DDR4	5 GB DDR4
QSPI	128 Mb	128 Mb	128 Mb	128 Mb	128 Mb	128 Mb	512 Mb	512 Mb
uSD Card Cage	No	No	No	No	Yes	Yes	No	No
eMMC Memory	8 GB	8 GB	8 GB	8 GB	No	No	8 GB	8 GB
User I/O[1]	100/13	135/13	125/13	135/13	100/8	115/8	180/26	152/26
GTP/GTX/GTR Ports	-	4	-	4	-	-	4 PS	4 PS 16 PL
10/100/1000 Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB 2.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB-UART	No	No	No	No	Yes	Yes	No	No
Other Peripherals	-	-	-	-	Pmod™	Pmod™	2 Kb EEPROM	2 Kb EEPROM
Size	4" x 2.25" 102 x 57 mm	4" x 2.25" 102 x 57 mm	4" x 2.25" 102 x 57 mm	4" x 2.25" 102 x 57 mm	4" x 2.25" 102 x 57 mm	4" x 2.25" 102 x 57 mm	3.5" x 2" 89 x 51 mm	4" x 2.5" 102x63.5 mm
Temperature Grade	Commercial[3]	Industrial	Commercial[3]	Industrial	Commercial[3]	Commercial[3]	Commercial[3]	Commercial[3]
Resale[2]	$178 USD	$265 USD	$213 USD	$375 USD	$178 USD	$213 USD	$485 USD	$999 USD

1: Zynq: PL IO / PS MIO
2: Resale based on 1 piece - call for volume pricing
3: Industrial Grade also available
4: Custom versions also available in the ZU2EG, ZU2CG, and ZU3CG.
5: Custom versions also available in the ZU4EV, ZU4EG, ZU5EV, ZU5EG, and ZU7EG.

System-on-Module Carrier Cards

Avnet-designed carrier cards pair with Avnet SOMs to create complete development systems. With a mix of on-board peripherals and expansion ports, these development systems make proof-of-concept designs possible. When you're ready to design your own custom carrier card, contact a local Avnet FAE to obtain the carrier card Altium source files to jump-start your design!

/PICOZED™

PicoZed Carrier Card V2:
A platform containing all the necessary interfaces and I/O expansion required for the PicoZed family of SOMs.
avnet.me/pz-fmc-v2-cc

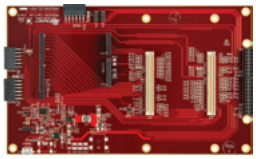
/ULTRAZED-EG™

PCIe Carrier Card:
Most cost effective PCIe solution for a MPSoC, along with one PMOD and one FMC LPC slot.
avnet.me/ultrazed-pcie

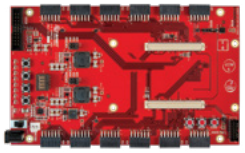
I/O Carrier Card:
High level of connectivity between an UltraZed-EG SOM with 13 PMOD and 1 Arduino standard connections.
avnet.me/ultrazed-iocc

/MICROZED™

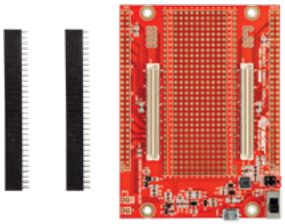
FMC Carrier Card:
Accelerate complex prototyping by interconnecting a MicroZed SOM with industry standard FMC Modules.
avnet.me/mz-fmc-cc



Arduino Carrier Card:
Ideal for building quick prototypes that leverage the large number of Arduino-compatible Shields.
avnet.me/mz-arduino-cc

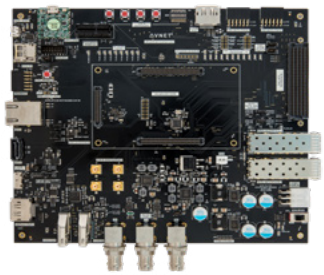


I/O Carrier Card:
Easy access to the MicroZed SOM's user I/O via 12 Pmods.
avnet.me/mz-io-cc



Breakout Carrier Card:
The simplest, least expensive way to enable the PL I/Os on the MicroZed SOM.
avnet.me/mz-breakout-cc

/ULTRAZED-EV™



Carrier Card:
Bring your video designs to reality with interconnection between many video standards and the UltraZed-EV SOM
avnet.me/ultrazed-ev-cc

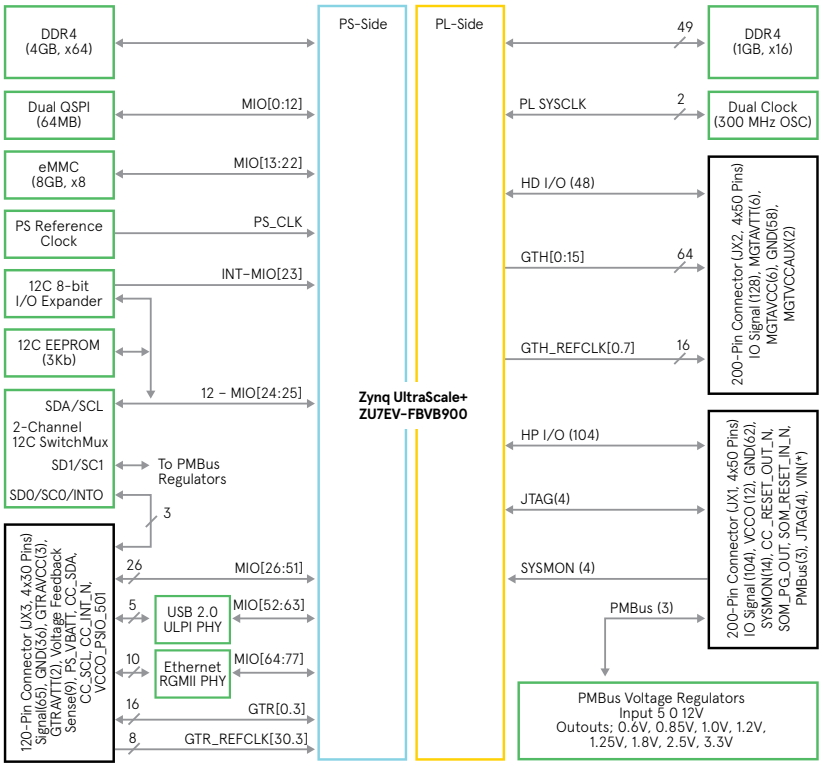
UltraZed-EV™

UltraZed-EV™ SOM is a high performance, full-featured, System-On-Module (SOM) based on the 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. These connectors provide USB 2.0, USB 3.0, PCIe Gen2, DisplayPort, SATA 3.0, FMC-HPC and more! The MPSoC EV device with its integrated H.264 / H.265 video codec unit is capable of simultaneous encode and decode up to 4Kx2K (60fps).

PARTS

Part Number	Description	Resale	Resale* 100-499
AES-ZU7EV-1-SOM-G	UltraZed-EV SOM (Commercial Temp)	$999 USD	Call
AES-ZU7EV-1-SOM-I-G	UltraZed-EV SOM (Industrial Temp)	$1,199 USD	Call

*Contact your local Avnet sales office for pricing on higher quantities



Additional information and downloadable documentation for UltraZed-EV can be obtained at avnet.me/ultrazed-ev

FEATURES

MPSoC

- Xilinx XCZU7EV-1FBVB900 device (SOM also supports 4EV, 5EV, 4EG, 5EG, or 7EG device in the FBVB900 package)

Memory

- PS DDR4 SDRAM (4GB, in x64 configuration)
- PL DDR4 SDRAM (1GB, in x16 configuration)
- Dual QSPI Flash (64MB)
- I2C EEPROM (2Kb)
- eMMC Flash (8GB, x8)

Communications

- USB 2.0 ULPI PHY
- Ethernet PHY

Other

- On-board voltage regulators
- PS reference clock input

User I/O (via three board to-board connectors)

- Three JX connectors, providing
- PS JTAG interface
- PL SYSMON interface
- Gigabit Ethernet RJ45 connector interface
- PMBus interface
- Power Good output, input voltages, and output sense pins

Software

- Linux BSP and reference designs

Mechanical

- 4 inches x 2.5 inches (102 x 63.5 mm)

/ULTRAZED™

UltraZed-EG™

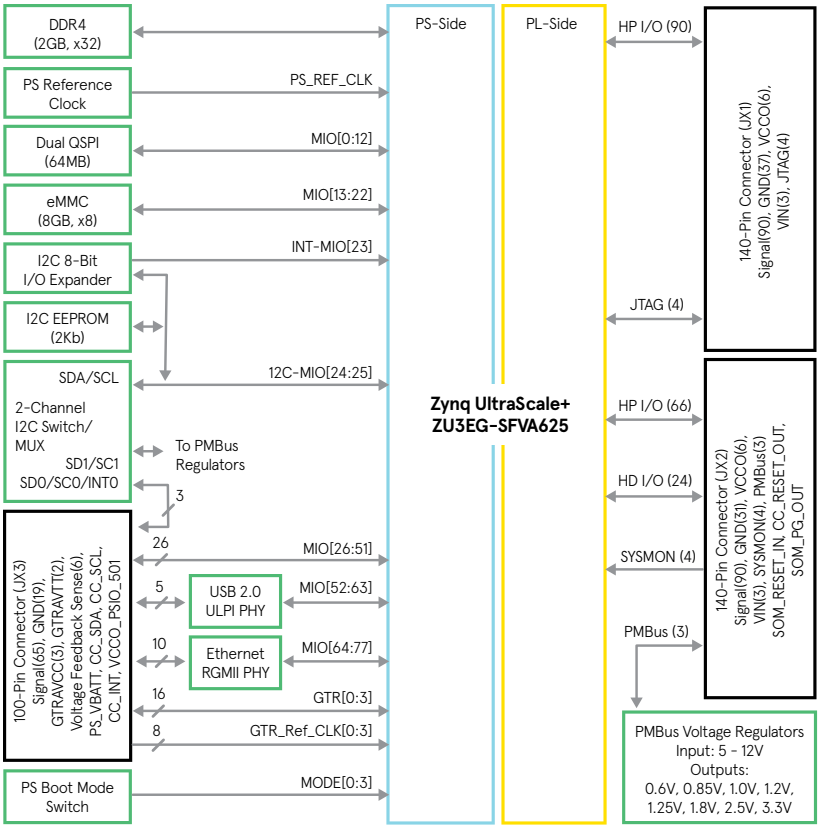
UltraZed-EG™ SOM is a highly flexible, rugged, System-On-Module (SOM) based on the Xilinx Zynq® UltraScale+™ MPSoC. Designed in a small form factor, the UltraZed-EG SOM packages all the necessary functions such as system memory, Ethernet, USB, and configuration memory needed for an embedded processing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

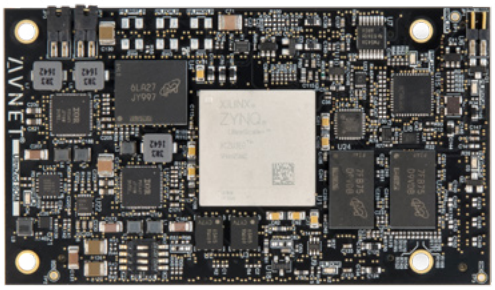
PARTS

Part Number	Description	Resale 1-99	Resale* 100-499
AES-ZU3EG-1-SOM-G	UltraZed-EG SOM (Commercial Temp)	$485	CALL
AES-ZU3EG-1-SOM-I-G	UltraZEd-EG SOM (Industrial Temp)	$535 USD	CALL

*Contact your local Avnet sales office for pricing on higher quantities



Additional information and downloadable documentation for UltraZed can be obtained at avnet.me/ultrazed-eg



FEATURES

MPSoC
- Xilinx XCZU3EG-1SFVA625 device
- Other options are available with MOQ=100

Memory
- DDR4 SDRAM (2GB, in x32 configuration)
- Dual QSPI Flash (64MB)
- I2C EEPROM (2Kb)
- eMMC Flash (8GB, in x8 configuration)

Communications
- USB 2.0 ULPI PHY
- Gigabit Ethernet PHY

Other
- PS reference clock input
- On-board voltage regulators
- Power-On Reset (POR) circuit
- 4-position boot mode slide switch
- Heatsink included

User I/O (via three board-to-board connectors)
- 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
  - PMBus interface
  - Carrier Card I2C interface
  - SOM Reset input
  - Carrier Card interrupt input
  - Carrier Card Reset output
  - Power Good output

Software
- Linux BSP and reference designs

Mechanical
- 3.5 inches x 2 inches (89 x 51 mm)

/ULTRAZED™

PicoZed™

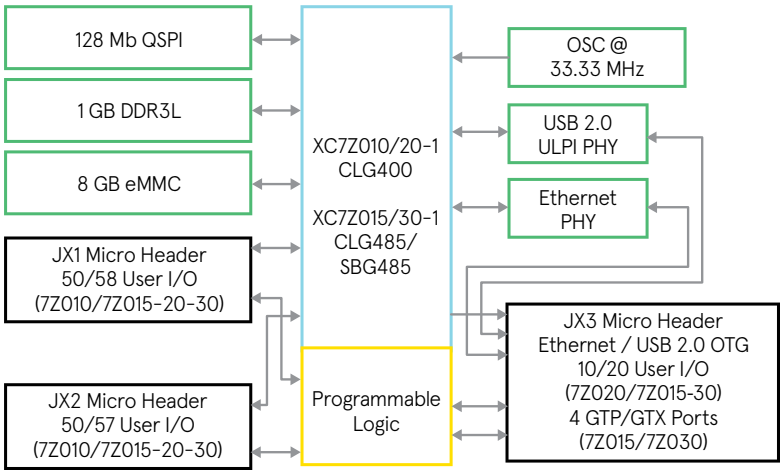
PicoZed™ is a highly flexible, rugged SOM that is based on the Xilinx Zynq-7000 SoC. It offers designers the flexibility to migrate between the 7010, 7015, 7020, and 7030 Zynq-7000 SoC devices in a pin-compatible footprint. The PicoZed module contains the common functions required to support the core of most SoC designs, including memory, configuration, Ethernet, USB, clocks, and power. It provides easy access to over 100 user I/O pins through three I/O connectors on the backside of the module. These connectors also support access to dedicated interfaces for Ethernet, USB, JTAG, power and other control signals, as well as the GTP/GTX transceivers on the 7015/7030 models. The transceiver based 7015 and 7030 versions of PicoZed are a superset of the 7010/7020 version, adding four high-speed serial transceiver ports to the I/O connectors. Designers can simply design their own carrier card, plug-in PicoZed, and start their application development with a proven Zynq-7000 SoC sub-system.

Industrial Temperature PicoZed SOMs are built with components supporting extended temperatures of -40 to +85°C. Due to the configurability of the Zynq device, the user must perform final temperature testing validation.

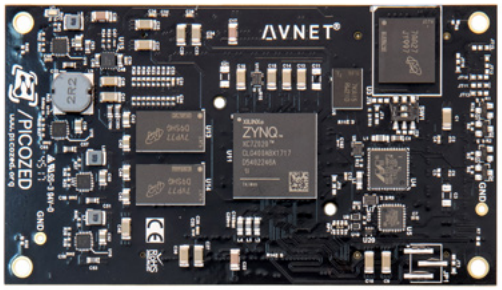
PARTS

Part Number	Description	Resale 1-99	Resale* 100-499
AES-Z7PZ-7Z010-SOM-G/REV-E	7010 PicoZed SOM	$178 USD	CALL
AES-Z7PZ-7Z010-SOM-I-G	7010 Ind. Temp PicoZed SOM	$217 USD	CALL
AES-Z7PZ-7Z015-SOM-I-G/REV-E	7015 Ind. Temp PicoZed SOM	$265 USD	CALL
AES-Z7PZ-7Z020-SOM-G/REV-E	7020 PicoZed SOM	$213 USD	CALL
AES-Z7PZ-7Z020-SOM-I-G/REV-E	7020 Ind. Temp PicoZed SOM	$265 USD	CALL
AES-Z7PZ-7Z030-SOM-I-G/REV-E	7030 Ind. Temp PicoZed SOM	$375 USD	CALL

*Contact your local Avnet sales office for pricing on higher quantities



Additional information and downloadable documentation for PicoZed can be obtained at avnet.me/picozed.



FEATURES

SoC options
- XC7Z010-1CLG400
- XC7Z015-1CLG485
- XC7Z020-1CLG400
- XC7Z030-1SBG485

Memory
- 1 GB of DDR3L SDRAM
- 8 GB eMMC
- 128 Mb of QSPI Flash

Communications
- 10/100/1000 Ethernet PHY
- USB 2.0 OTG PHY

User I/O (via three board-to-board connectors)
- 7Z010 Version
  - 113 User I/O (100 PL, 13 PS MIO)
  - PL I/O configurable as up to 48 LVDS pairs or 100 single-ended I/O
- 7Z015 Version
  - 148 User I/O (135 PL, 13 PS MIO)
  - PL I/O configurable as up to 65 LVDS pairs or 135 single-ended I/O
  - 4 GTP Transceivers
- 7Z020 Version
  - 138 User I/O (125 PL, 13 PS MIO)
  - PL I/O configurable as up to 60 LVDS pairs or 125 single-ended I/O
- 7Z030 Version
  - 148 User I/O (135 PL, 13 PS MIO)
  - PL I/O configurable as up to 65 LVDS pairs or 135 single-ended I/O
  - 4 GTX Transceivers

Other
- JTAG configuration port accessible via I/O connectors
- PS JTAG pins accessible via I/O connectors
- 33.33 MHz oscillator

Software
- Linux BSP and reference designs

Mechanical
- 4 inches x 2.25 inches (102 mm x 57 mm)

/PICOZED™

MicroZed™

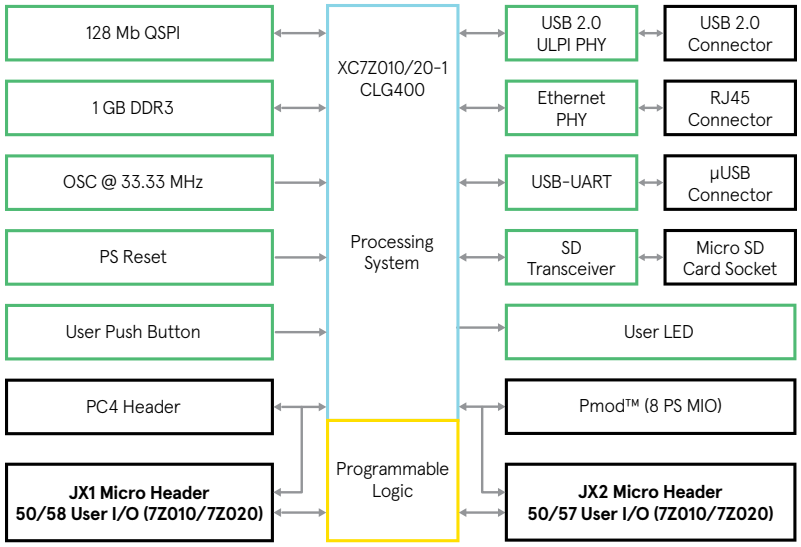
MicroZed™ is a low-cost SOM that is based on the Xilinx Zynq®-7000 SoC. In addition to the Zynq-7000 SoC, the module contains the common functions and interfaces required to support the core of most SoC designs, including memory, configuration, Ethernet, USB, and clocks. On the bottom side of the module, MicroZed contains two 100-pin I/O headers that provide connection to two I/O banks on the programmable logic (PL) side of the Zynq-7000 SoC device. When plugged onto a user designed baseboard or carrier card, these 100-pin connectors provide connectivity between the Zynq-7000 SoC PL I/Os and the user circuits on the carrier card. MicroZed also includes on-board power regulation that supports 5 V input with an option to support 12 V input.

Industrial Temperature MicroZed SOMs are built with components supporting extended temperatures of -40 to +85°C, with the exception of the use of the microSD card connector. Due to the configurability of the Zynq device, the user must perform final temperature testing validation.

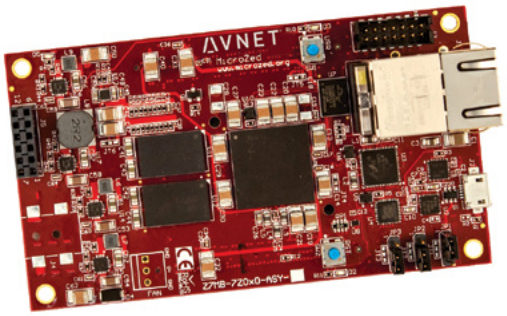
PARTS

Part Number	Description	Resale 1-99	Resale* 100-499
AES-Z7MB-7Z010-SOM-G/REV-G	7Z010 MicroZed SOM	$178 USD	CALL
AES-Z7MB-7Z010-SOM-I-G/REV-G	7Z010 Ind. Temp MicroZed SOM	$217 USD	CALL
AES-Z7MB-7Z020-SOM-G/REV-G	7Z020 MicroZed SOM	$213 USD	CALL
AES-Z7MB-7Z020-SOM-I-G/REV-G	7Z020 Ind. Temp MicroZed SOM	$265 USD	CALL

*Contact your local Avnet sales office for pricing on higher quantities



Additional information and downloadable documentation for MicroZed can be obtained at avnet.me/microzed.



FEATURES

SoC
- XC7Z010-1CLG400 or
- XC7Z020-1CLG400

Memory
- 1 GB of DDR3 SDRAM
- 128 Mb of QSPI Flash
- MicroSD card interface

Communications
- 10/100/1000 Ethernet
- USB 2.0 OTG
- USB-UART

User I/O (via dual board-to-board connectors)
- 7Z010 Version
  - 108 User I/O (100 PL, 8 PS MIO)
  - PL I/O configurable as up to 48 LVDS pairs or 100 single-ended I/O
- 7Z020 Version
  - 123 User I/O (115 PL, 8 PS MIO)
  - PL I/O configurable as up to 55 LVDS pairs or 115 single-ended I/O

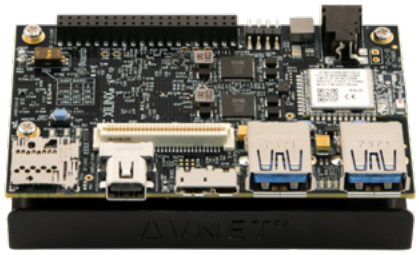
Other
- 2x6 Digilent Pmod® compatible interface providing 8 PS MIO connections for user I/O
- Xilinx PC4 JTAG configuration port
- PS JTAG pins accessible via Pmod or I/O headers
- 33.33 MHz oscillator
- User LED and push button

Software
- Linux BSP and reference designs

Mechanical
- 4 inches x 2.25 inches (102 mm x 57 mm)

/MICROZED™

Ultra96™-V2



Ultra96-V2 is an Arm-based, Xilinx Zynq UltraScale+™ MPSoC development board based on the Linaro 96Boards specification. The 96Boards' specifications are open and define a standard board layout for development platforms that can be used by software application, hardware device, kernel, and other system software developers. Ultra96-V2 represents a unique position in the 96Boards community with a wide range of potential peripherals and acceleration engines in the programmable logic that is not available from other offerings.

Ultra96-V2 boots from the provided Delkin 16 GB microSD card (Embedded Linux available via download). Engineers have options of connecting to Ultra96-V2 through a Webserver using integrated wireless access point capability or to use the provided PetaLinux desktop environment which can be viewed on the integrated Mini DisplayPort video output. Multiple application examples and on-board development options are provided as examples.

Ultra96-V2 provides four user-controllable LEDs. Engineers may also interact with the board through the 96Boards-compatible low-speed and high-speed expansion connectors by adding peripheral accessories.

Micron LPDDR4 memory provides 2 GB of RAM in a 512M x 32 configuration. A Microchip radio module includes 802.11b/g/n WiFi and Bluetooth 5 Low Energy support, and is Agency Certified in more than 75 countries. UARTs are accessible on a header as well as through the expansion connector. JTAG is available through a header (external USB-JTAG required). I2C is available through the expansion connector.

Ultra96-V2 provides one upstream (device) and two downstream (host) USB 3.0 connections. A USB 2.0 downstream (host) interface is provided on the highspeed expansion bus. Two Microchip USB3320 USB 2.0 ULPI Transceivers and one Microchip USB5744 4-Port SS/HS USB Controller Hub are specified. The integrated power supply from Infineon generates all on-board voltages from an external 12V supply (available as an accessory).

PARTS

Part Number	Description	Resale	Resale* 100-499
AES-ULTRA96-V2-G	Ultra96-V2 Zynq UltraScale+ ZU3EG Development Board Com. grade	$249.00	CALL
ES-ULTRA96-V2-I-G	Ultra96-V2 Zynq UltraScale+ ZU3EG Development Board Ind. temp	CALL	CALL

*Contact your local Avnet sales office for pricing on higher quantities

FEATURES

MPSoC
- Xilinx Zynq UltraScale+ MPSoC ZU3EG A484

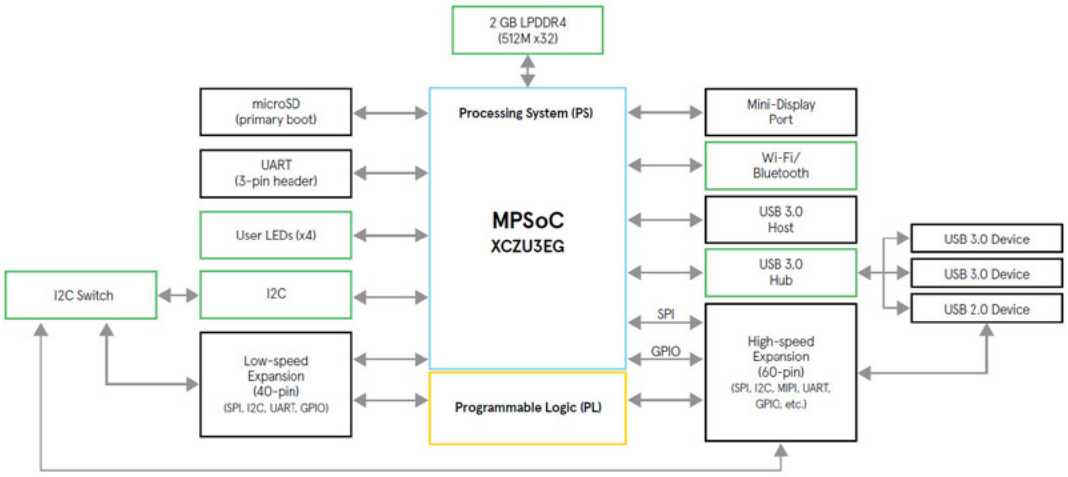
Memory
- Micron 2 GB (512M x32) LPDDR4 Memory
- Delkin 16 GB microSD card + adapter
- Embedded Linux available via download

Communications and UI
- Microchip Wi-Fi / Bluetooth
- Mini DisplayPort (MiniDP or mDP)
- 1x USB 3.0 Type Micro-B upstream port
- 2x USB 3.0, 1x USB 2.0 Type A downstream ports

User I/O
- 40-pin 96Boards Low-speed expansion header
- 60-pin 96Boards High-speed expansion header

Other
- IDT programmable LVDS and Single-ended clocks
- Voltage regulators
- Linaro 96Boards Consumer Edition compatible

Mechanical
- 85mm x 54mm form factor



To purchase this kit, visit www.avnet.me/ultra96v2

/ ULTRA96

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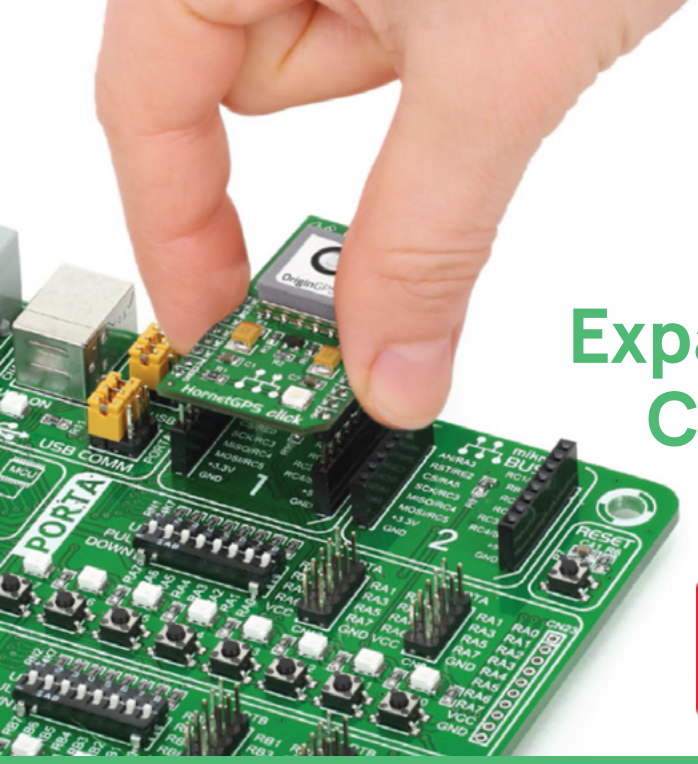
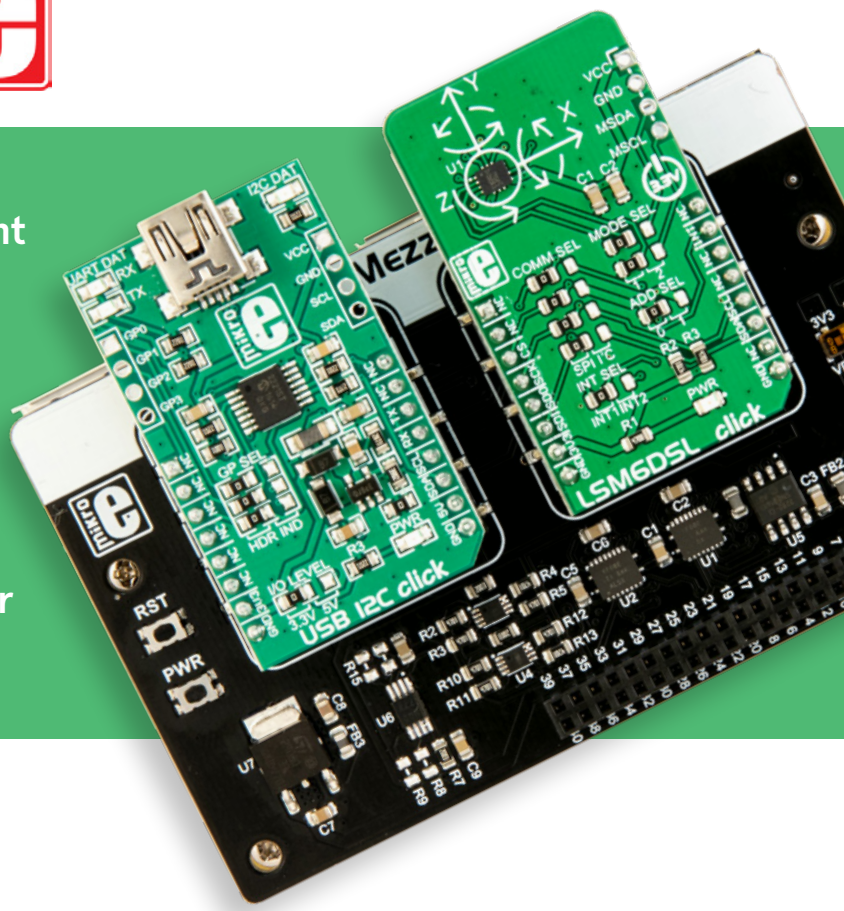


Expand the Ultra96-V2 with Click Mezzanine Card and 700+ Click boards!

Plugs into Avnet's Ultra96 Development Board, giving access to 700+ Click boards™ from MikroElektronika!

Add-on boards for evaluating, prototyping and developing with sensors, communication modules, actuators, displays, and a host of other products and technologies.



96Boards Click Mezzanine

- Provides two MikroBUS sites
- Compatible with 96Boards LS Expansion

96Boards Click Mezzanine Starter Kit

- Includes Mezzanine, plus 3 click boards
  - USB UART
    Uses Microchip MCP2221
  - 2x16 Character LCD
    Uses Microchip controller
  - 6DoF inertial measurement unit
    Uses ST Micro LSM6DSL

Part Number	Description	Resale
AES-ACC-U96-ME-MEZ	96Boards Click Mezzanine	$16.00
AES-ACC-U96-ME-SK	96Boards Click Mezzanine Starter Kit	$49.00

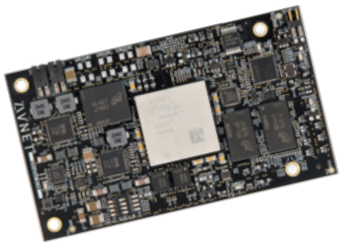
*Contact your local Avnet sales office for pricing on higher quantities

To purchase visit
Avnet.me/ClickMezzanine

Development Kits, Carrier Cards and Accessories

ULTRAZED-EV™

Part Number	Description	Resale	Website
AES-ZU7EV-1-SK-G	UltraZed-EV Starter Kit	$1,595 USD	avnet.me/ultrazed-ev-sk
AES-ZUEV-CC-G	UltraZed-EV Carrier Card	$649 USD	avnet.me/ultrazed-ev-cc

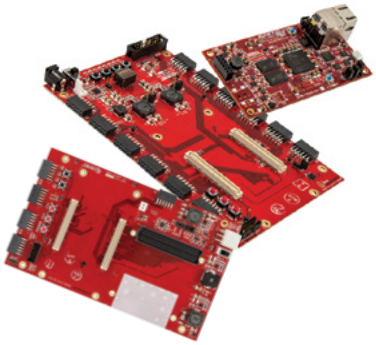


ULTRAZED-EG™

Part Number	Description	Resale	Website
AES-ZU3EG-1-SK-G	UltraZed-EG Starter Kit	$895 USD	avnet.me/ultrazed-eg-sk
AES-ZU-IOCC-G	UltraZed-EG IO Carrier Card	$499 USD	avnet.me/ultrazed-iocc
AES-ZU-PCIECC-G	UltraZed-EG PCIe Carrier Card	$499 USD	avnet.me/ultrazed-pcie

ULTRA96-V2™

Part Number	Description	Resale	Website
AES-ACC-U96-JTAG	UART / JTAG cable	$39 USD	avnet.me/ultra96jtag
AES-ACC-U96-4APWR	4A Power Supply	$19.99 USD	avnet.me/96Board4APower
AES-ACC-U96-ME-MEZ	96Boards Click Mezzanine	$16.00 USD	avnet.me/ClickMezzanine
AES-ACC-U96-ME-SK	96Boards Click Mezzanine Starter Kit	$49.00 USD	avnet.me/ClickMezzanine



MICROZED™

Part Number	Description	Resale	Website
AES-Z7MB-7Z010-G	MicroZed Development Kit	$199 USD	avnet.me/microzed
AES-MBCC-IO-G	I/O Carrier Card	$149 USD	avnet.me/mz-io-cc
AES-MBCC-FMC-G	FMC Carrier Card	$175 USD	avnet.me/mz-fmc-cc
AES-ARDUINO-CC-G	Arduino Carrier Card	$89 USD	avnet.me/mz-arduino-cc
AES-MBCC-BRK-G	Breakout Carrier Card	$59 USD	avnet.me/mz-breakout-cc

PICOZED™

Part Number	Description	Resale	Website
AES-PZCC-FMC-V2-G	PicoZed Carrier Card V2	$349 USD	avnet.me/pz-fmc-v2-cc

FMC

Part Number	Description	Resale	Website
AES-FMC-NETW1-G	Network FMC Module	$149 USD	avnet.me/fmc-network1
AES-FMC-ISMNET2-G	ISM Networking FMC v2 Module	$250 USD	avnet.me/fmc-ismnet2
AES-FMC-MULTICAM4-G	Multicamera FMC Module	$299 USD	avnet.me/fmc-multicam
AES-FMC-MC4-AR0231AT-G	Quad AR0231AT Camera FMC Bundle	$1,699 USD	avnet.me/fmc-quad-cam
AES-FMC-HDMI-CAM-G	HDMI I/O FMC Module	$250 USD	avnet.me/fmc-hdmi-cam

OTHER KITS AND ACCESSORIES

Part Number	Description	Resale	Website
AES-MINIZED-7Z007-G	MiniZed Z7007S Starter Kit	$89 USD	avnet.me/minized
AES-Z7EV-7Z020-G	ZedBoard	$475 USD	avnet.me/zedboard-dev-kit
AES-PMOD-TPM20-SLB9670-G	Infineon TPM v2.0 Peripheral Module	$29.95 USD	avnet.me/tpm2.0
AES-CAM-ON-P1300C-G	ON Python 1300C Camera Module	$499 USD	avnet.me/python1300
AES-PMOD-TDM114-G	TDNext 1.26Mpixel Pmod Camera Kit	$69 USD	avnet.me/tdnext
AES-PMOD-MUR-1DX-G	Murata 1DX Ble WiFi Bluetooth Pmod WiFi/BLE Module	$59 USD	avnet.me/pmod_1dx
210-299P-KIT	JTAG HS3 Programming Cable	$41.59 USD	avnet.me/jtaghs3

Support

Our community-based site is dedicated to helping you jump-start your Xilinx Zynq®-7000 All Programmable SoCs and UltraScale+ MPSoC projects. You'll find reference designs, documentation and training material supporting the platforms and solutions presented here. We hope you'll sign-on, join the community and get started today!

Reference Designs

Download the various reference designs and tutorials for any of the Zynq-based products.

Forums

Ideas, questions and solutions from community members.

Training and Videos

Learn how to create your own designs or see what others have done. You'll find introductory courses, advanced topics, architectural overviews and links to other resources.

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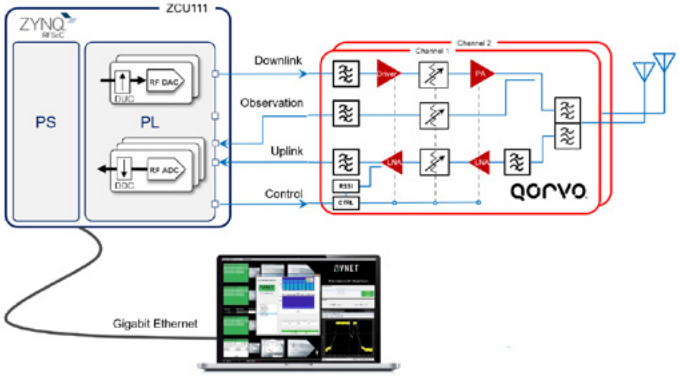
Avnet Zynq UltraScale+ RFSoC Development Kit

Explore the Xilinx Zynq® UltraScale+™ RFSoC from antenna to digital using tools from MathWorks and industry-leading RF components from Qorvo.

Connect to RFSoC gigasample data converters and perform analysis natively in MATLAB® and Simulink® using Avnet's RFSoC Explorer®. Prototype over-the-air transmission with the Qorvo 2x2 LTE Band-3 1.8 GHz RF front-end card.

For more information visit
Avnet.com/rfsockit



Control the RFSoC and Qorvo RF front end with RFSoC Explorer

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