

EZ32 Products Selection Guide

2024/03

Products	Page
ZYNQ Ultrascale+ SoC Modules --- EZ-SOM-ZU2CG/3EG/4EV/5EV	2
ZYNQ Ultrascale+ SoC Modules --- EZ-SOM-ZU7EV/7EG/11EG/9EG/15EG	3
ZYNQ Ultrascale+ Evaluation Kits --- EZ-KIT-ZU2CG/3EG/4EV/5EV	4
ZYNQ Ultrascale+ Evaluation Kits --- EZ-KIT-ZU7EV/7EG/11EG/9EG/15EG	5
Kintex-7/Kintex Ultrascale/Virtex-7 Modules --- EZ-SOM-K7/KU/V7	6
Artix-7 Modules --- EZ-SOM-A7	7
Kintex-7/Kintex Ultrascale/Virtex-7 Evaluation Kits --- EZ-KIT-K7/KU/V7	8
Artix-7 SOM Evaluation Kits/Boards --- EZ-KIT-A7/EZ-BRD-A7	9
Zynq Modules --- EZ-SOM-7Z	10
ZYNQ SOM Evaluation Kits --- EZ-KIT-7Z	11
ZYNQ Software Defined Radio(SDR) Products --- EZ-SDR	12
FMC Boards --- A/D, D/A	13
FMC Boards --- USB3, Ethernet	14
Add-on Boards --- A/D, D/A, LCD, Camera	15

AMD ZYNQ Ultrascale+ SoC Modules Selection Guide --- EZ-SOM-ZU2CG/3EG/4EV/5EV

Product Name	EZ-SOM-ZU2CG	EZ-SOM-ZU3EG	EZ-SOM-ZU4EV	EZ-SOM-ZU5EV
FPGA Family	Zynq® UltraScale+™			
FPGA Device Name	ZU2CG	ZU3EG	ZU4EV	ZU5EV
FPGA Speed Grade	2	2	2	2
FPGA Part Number	XCZU2CG-2SFVC784E	XCZU3EG-2SFVC784I	XCZU4EV-2SFVC784I	XCZU5EV-2SFVC784I
CPU Cores	2 x ARM® Cortex™-A53 2 x Cortex™-R5		4 x ARM® Cortex™-A53 2 x Cortex™-R5	
CPU Frequency @ MHz	1,200 500		1,333 533	
PS Peripherals	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN		Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN	
PS Ethernet USB	1 Gbps USB 3.0			
PS SDRAM	64-bit 4096MB DDR4			
PS SDRAM Bandwidth (MByte/s)	19200			
PL Logic Cells	103K	154K	192K	256K
PL BlockRAM + UltraRAM(Mbit)	5.4	7.77	18.4	23.6
DSP Slices	310	558	728	1248
PL MGT Transceivers @ Gbps	-		4 @ 12.5	
PLPeripherals	-		PCIe® Gen3 x4 H264/265 Codec	
PL Gigbit Ethernet	-			
PL SDRAM	16-bit 1024MB DDR4			
PL SDRAM Bandwidth (MByte/s)	4800			
Flash Memory	32M QSPI 8G eMMC			
Connector IO Pins	PL 192 PS 38			
IO Voltage/IO Numbers	PL 1.2/1.8V adjustable/96 PL1.8/2.5/3.3V/96 PS 1.8V/38			
Module Dimensions (mm)	83.8 X 63.8			
Temperature Range	-40~+85°C			
Boot Modes	JTAG QSPI SD Card eMMC			
Evaluation Kits	EZ-KIT-ZU2CG-A/B	EZ-KIT-ZU3EG-A/B	EZ-KIT-ZU4EV-A/B	EZ-KIT-ZU5EV-A/B
Product Code	EZ-SOM-ZU2CG-A	EZ-SOM-ZU3EG-A	EZ-SOM-ZU4EV-A	EZ-SOM-ZU5EV-A

Notes

- EZ-SOM-ZU2CG/3EG/4EV/5EV share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- All specification and release dates are subject to change without notice. Please verify component specification with vendors' datasheet.
- All trademarks are the property of their respective owners. All prices do not include shipping, taxes and duties.
- Please visit ez32.com for detailed information.

AMD ZYNQ Ultrascale+ SoC Modules Selection Guide---EZ-SOM-ZU7EV/7EG/11EG/9EG/15EG

Product Name	EZ-SOM-ZU7EV	EZ-SOM-ZU7EG	EZ-SOM-ZU11EG	EZ-SOM-ZU9EG	EZ-SOM-ZU15EG
FPGA Family	Zynq® UltraScale+™			Zynq® UltraScale+™	
FPGA Device Name	ZU7EV	ZU7EG	ZU11EG	ZU9EG	ZU15EG
FPGA Speed Grade	2	2	2	2	2
FPGA Part Number	XCZU7EV-2FFVC1156I	XCZU7EG-2FFVC1156I	XCZU11EG-2FFVC1156I	XCZU9EG-2FFVB1156I	XCZU9EG-2FFVB1156I
CPU Cores	4 x ARM® Cortex™-A53 2 x Cortex™-R5			4 x ARM® Cortex™-A53 2 x Cortex™-R5	
CPU Frequency @ MHz	1,333 533			1,333 533	
PS Peripherals	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN			Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN	
PS Ethernet USB	1 Gbps USB 3.0			1 x 1Gbps USB 3.0	
PS SDRAM	64-bit 4096MB DDR4			64-bit 4096MB DDR4	
PS SDRAM Bandwidth (MByte/s)	19200			19200	
PL Logic Cells	504K	504K	653K	600K	747K
PL BlockRAM + UltraRAM(Mbit)	38	38	43.6	32.1	57.7
DSP Slices	1728	1728	2928	2520	3528
PL MGT Transceivers @ Gbps	20 @ 12.5			24 @ 12.5	24 @ 12.5
PLPeripherals	PCIe® Gen3 x16 H264/265 Codec	PCIe® Gen3 x16		PCIe® Gen3 x16	PCIe® Gen3 x16
PL Gigbit Ethernet	-			-	
PL SDRAM	64-bit 4096MB DDR4			32-bit 2048MB DDR4	
PL SDRAM Bandwidth (MByte/s)	19200			9600	
Flash Memory	64M QSPI 8G eMMC			64M QSPI 8G eMMC	
Connector IO Pins	PL 192 PS 38			PL 192 PS 38	
IO Voltage/IO Numbers	PL 1.2/1.8V adjustable/96 PL1.8/2.5/3.3V/96 PS 1.8V/38			PL 1.2/1.8V adjustable/96 PL1.8/2.5/3.3V/96 PS 1.8V/38	
Module Dimensions (mm)	85 X 75			85 x 75	
Temperature Range	-40~+85°C			-40~+85°C	
Boot Modes	JTAG QSPI SD Card eMMC			JTAG QSPI SD Card eMMC	
Evaluation Kits	EZ-KIT-ZU7EV-A	EZ-KIT-ZU7EG-A	EZ-KIT-ZU11EG-A	EZ-KIT-ZU9EG-A	EZ-KIT-ZU15EG-A
Product Code	EZ-SOM-ZU7EV-A	EZ-SOM-ZU7EG-A	EZ-SOM-ZU11EG-A	EZ-SOM-ZU9EG-A	EZ-SOM-ZU15EG-A

Notes

- EZ-SOM-ZU7EV/7EG/11EG share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- EZ-SOM-ZU9EG/15EG share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- All specification and release dates are subject to change without notice. Please verify component specification with vendors' datasheet.
- All trademarks are the property of their respective owners. All prices do not include shipping, taxes and duties.
- Please visit ez32.com for detailed information.

AMD ZYNQ Ultrascale+ SOM Evaluation Kits Selection Guide---EZ-KIT-ZU2CG/3EG/4EV/5EV

Product Name	EZ-KIT-ZU2CG-A	EZ-KIT-ZU2CG-B	EZ-KIT-ZU3EG-A	EZ-KIT-ZU3EG-B	EZ-KIT-ZU4EV-A	EZ-KIT-ZU4EV-B	EZ-KIT-ZU5EV-A	EZ-KIT-ZU5EV-B
SOM Supported	EZ-SOM-ZU2CG		EZ-SOM-ZU3EG		EZ-SOM-ZU4EV		EZ-SOM-ZU5EV	
FPGA Device Part on SOM	XCZU2CG-2SFVC784I		XCZU3EG-2SFVC784I		XCZU4EV-2SFVC784I		XCZU5EV-2SFVC784I	
Gigbit Ethernet PL/PS	1/1				1/1			
DDR4 RAM on SOM PL/PS	64-bit 4GB/16-bit 1GB				64-bit 4GB/16-bit 1GB			
CPU Cores	2 x ARM® Cortex™-A53 2 x Cortex™-R5				4 x ARM® Cortex™-A53 2 x Cortex™-R5			
CPU Frequency @ MHz	1,200 500				1,333 533			
PS Peripherals	Mali™ DisplayPort PCIe® Gen3 x4 SATA SGMII CAN				Mali™ DisplayPort PCIe® Gen3 x4 SATA SGMII CAN			
PS USB 3.0	4 x USB 3.0				4 x USB 3.0			
miniDP	1				1			
SD CARD	1				1			
HDMI In/Out	-				-			
SSD (NVME)	1				1			
SATA	2				2			
MIPI	2				2			
FMC HPC Expansion Connector	FMC HPC X 1	-	FMC HPC X 1	-	FMC HPC X 1	-	FMC HPC X 1	-
40-pin 2.54mm/120-pin 0.8mm connectors	1/2				1/2			
USB to JTAG	1				1			
SFP	1				1			
LEDs/Push Buttons	5/5				5/5			
PCIe	-	PCIe® Gen3 x2	-	PCIe® Gen3 x2	-	PCIe® Gen3 x2	-	PCIe® Gen3 x2
UART/RS485/CAN	1/1/1				1/1/1			
Kit Carrier Board Dimensions (mm)	180 x 113				180 x 113			
EEPROM	64Kbit				64Kbit			
Power supply	12V/3A				12V/3A			
Product code	EZ-KIT-ZU2CG-A	EZ-KIT-ZU2CG-B	EZ-KIT-ZU3EG-A	EZ-KIT-ZU3EG-B	EZ-KIT-ZU4EV-A	EZ-KIT-ZU4EV-B	EZ-KIT-ZU5EV-A	EZ-KIT-ZU5EV-B

Notes

- All Evaluation kits type A employ the same carrier board, with the only difference being the SOM onboard. The same principle applies to Evaluation kits type B.
- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD ZYNQ Ultrascale+ SOM Evaluation Kits Selection Guide---EZ-KIT-ZU7EV/7EG/11EG/9EG/15EG

Product Name	EZ-KIT-ZU7EV	EZ-KIT-ZU7EG	EZ-KIT-ZU11EG	EZ-KIT-ZU9EG	EZ-KIT-ZU15EG
SOM Supported	EZ-SOM-ZU7EV	EZ-SOM-ZU7EG	EZ-SOM-ZU11EG	EZ-SOM-ZU9EG	EZ-SOM-ZU15EG
FPGA Device Part on SOM	XCZU7EV-2FFVC1156I	XCZU7EG-2FFVC1156I	XCZU11EG-2FFVC1156I	XCZU9EG-2FFVB1156I	XCZU15EG-2FFVB1156I
Gigabit Ethernet PL/PS	1/1			1/1	
DDR4 RAM on SOM PL/PS	64-bit 4GB/64-bit 4GB			64-bit 4GB/32-bit 2GB	
CPU Cores	4 x ARM® Cortex™-A53 2 x Cortex™-R5			4 x ARM® Cortex™-A53 2 x Cortex™-R5	
CPU Frequency @ MHz	1,333 533			1,333 533	
PS Peripherals	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN			Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN	
PS USB 3.0	4 x USB 3.0			4 x USB 3.0	
miniDP	1			1	
SD CARD	1			1	
HDMI In/Out	1 /1			1 /1	
SSD (NVME)	1			1	
SATA	2			2	
MIPI	2			2	
FMC HPC Expansion Connector	FMC HPC X 1			FMC HPC X 1	
40-pin 2.54mm/120-pin 0.8mm connectors	1/1			1/1	
USB to JTAG	1			1	
SFP	2			2	
LEDs/Push Buttons	5/2			5/2	
PCIe	PCIE3.0 X 4			PCIE3.0 X 4	
UART/RS485/CAN	1/1/1			1/1/1	
Kit Carrier Board Dimensions (mm)	200 x 130			83.8 X 63.8	
EEPROM	64Kbit			64Kbit	
Power supply	12V/3A			12V/3A	
Product code	EZ-KIT-ZU7EV-A	EZ-KIT-ZU7EG-A	EZ-KIT-ZU11EG-A	EZ-KIT-ZU9EG-A	EZ-KIT-ZU15EG-A

Notes

- EZ-SOM-ZU7EV/7EG/11EG are pin-compatible, differing only in the FPGA devices on the SOM. Their respective evaluation kits all utilize the same carrier board.
- EZ-SOM-ZU9EG/15EG are pin-compatible, differing only in the FPGA devices on the SOM. Their respective evaluation kits all utilize the same carrier board.
- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD Kintex-7/Kintex Ultrascale/Virtex-7 Modules Selection Guide---EZ-SOM-K7/KU/V7

Product Name	EZ-SOM-K7325T	EZ-SOM-K7410T	EZ-SOM-KU040	EZ-SOM-KU060	EZ-SOM-V7690T
FPGA Family	AMD® Kintex-7™		AMD® Kintex Ultrascale™		AMD® Virtex-7™
FPGA Device Name	XC7K325T	XC7K410T	XCKU040	XCKU060	XC7V690T
FPGA Speed Grade	2	2	2	2	2
FPGA Part Number	XC7K325T-2FFG900	XC7K410T-2FFG900I	XCKU040-2FFVA1156I	XCKU060-2FFVA1156I	XC7V690T-2FFG1761I
CPU Cores	-	-	-	-	-
CPU Frequency @ MHz	-	-	-	-	-
PS Peripherals	-	-	-	-	-
PS Ethernet USB	-	-	-	-	-
PS SDRAM	-	-	-	-	-
PS SDRAM Bandwidth (MByte/s)	-	-	-	-	-
PL Logic Cells	326080	406720	530250	725550	693120
PL BlockRAM(kbit)	16020	28620	21100	38000	52920
DSP Slices	840	1540	1920	2760	3600
PL MGT Transceivers	16		20		36
PL Peripherals	PCIe® Gen2 x8		PCIe® Gen3 x16		PCIe® Gen3 x16
PL Gigbit Ethernet	1		1		1
PL SDRAM	64-bit 2948MB DDR3		64-bit 4096MB DDR4		64-bit 2048MB DDR3 x 2
PL SDRAM Bandwidth (MByte/s)	12800		19200		25600
Flash Memory	32M QSPI		32M QSPI		-
Connector IO Pins	288	288	296		528
IO Voltage/IO Numbers	1.8/2.5/3.3V adjustable 288	1.8/2.5/3.3V adjustable 288	HP1.2/1.8V adjustable 240 HR 1.8/2.5/3.3V 48 HR 3.3V 8		1.2/1.8V adjustable 528
Module Dimensions (mm)	64.8 X 83.8		63.8 X 83.8		80 X 100
Temperature Range	-40~+85°C		-40~+85°C		-40~+85°C
Boot Modes	QSPI/JTAG		QSPI/JTAG		QSPI/JTAG/BPI
Evaluation Kits	EZ-KIT-K7325T-A	EZ-KIT-K7410T-A	EZ-KIT-KU040-A	EZ-KIT-KU060-A	EZ-KIT-V7690T-A
Product Code	EZ-SOM-K7325T-A	EZ-SOM-K7410T-A	EZ-SOM-KU040-A	EZ-SOM-KU060-A	EZ-SOM-V7690T-A

Notes

- EZ-SOM-K7325T/410T share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- EZ-SOM-KU040/060 share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- All specification and release dates are subject to change without notice. Please verify component specification with vendors' datasheet.
- All trademarks are the property of their respective owners. All prices do not include shipping, taxes and duties.
- Please visit ez32.com for detailed information.

AMD Artix-7 Modules Selection Guide---EZ-SOM-A7

Product Name	EZ-SOM-A735T	EZ-SOM-A775T	EZ-SOM-A7100T	EZ-SOM-A7200T	
FPGA Family	AMD® Artix-7™		AMD® Artix-7™		
FPGA Device Name	XC7A35T	XC7A75T	XC7A100T	XC7A200T	
FPGA Speed Grade	2	2	2	2	
FPGA Part Number	XC7A35T-2FGG484I	XC7A75T-2FGG484I	XC7A100T-2FGG484I	XC7A200T-2FGG484I	
CPU Cores	-	-	-	-	
CPU Frequency @ MHz	-	-	-	-	
PS Peripherals	-	-	-	-	
PS Ethernet USB	-	-	-	-	
PS SDRAM	-	-	-	-	
PS SDRAM Bandwidth (MByte/s)	-	-	-	-	
PL Logic Cells	33280	75520	101440	215360	
PL BlockRAM(kbit)	1800	3780	4846	13140	
DSP Slices	90	180	240	740	
PL MGT Transceivers	4	4	4	4	
PL Peripherals	PCIe® Gen2 x4		PCIe® Gen2 x4		
PL Gigabit Ethernet	1	1	1	1	
PL SDRAM	32-bit 1024MB DDR3		32-bit 1024MB DDR3		
PL SDRAM Bandwidth (MByte/s)	3200	3200	3200	3200	
Flash Memory	32M QSPI		32M QSPI		
Connector IO Pins	138	172	172	172	
IO Voltage/IO Numbers	1.8/2.5/3.3V adjustable 138	1.8/2.5/3.3V adjustable 172	1.8/2.5/3.3V adjustable 172	1.8/2.5/3.3V adjustable 172	
Module Dimensions (mm)	60 X 45		60 X 45		
Temperature Range	-40~+85°C		-40~+85°C		
Boot Modes	QSPI/JTAG		QSPI/JTAG		
Evaluation Kits	EZ-KIT-A735T-A	EZ-KIT-A775T-A	EZ-KIT-A7100T-A	EZ-KIT-A7200T-A	
Product Code	EZ-SOM-A735T-A	EZ-SOM-A775T-A	EZ-SOM-A7100T-A	EZ-SOM-A7200T-A	

Notes

- EZ-SOM-A735T/75T/100T/200T share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- All specification and release dates are subject to change without notice. Please verify component specification with vendors' datasheet.
- All trademarks are the property of their respective owners. All prices do not include shipping, taxes and duties.
- Please visit ez32.com for detailed information.

AMD Kintex-7/Kintex Ultrascale/Virtex-7 SOM Evaluation Kits Selection Guide---EZ-KIT-K7/KU/V7

Product Name	EZ-KIT-K7325T-A	EZ-KIT-K7325T-B	EZ-KIT-K7410T-A	EZ-KIT-K7410T-B	EZ-KIT-KU040	EZ-KIT-KU060	EZ-KIT-V7690T
SOM Supported	EZ-SOM-K7325T	EZ-SOM-K7325T	EZ-SOM-K7410T	EZ-SOM-K7410T	EZ-SOM-KU040	EZ-SOM-KU060	EZ-SOM-V7690T
FPGA Device Part on SOM	XC7K325T-2FFG900I	XC7K325T-2FFG900I	XC7K410T-2FFG900I	XC7K410T-2FFG900I	XCKU040-2FFVA1156I	XCKU060-2FFVA1156I	XC7V690T-2FFG1761I
Gigabit Ethernet PL/PS	1/-		1/-		2/-		2/-
DDR RAM on SOM PL/PS	64-bit 2GB DDR3/-		64-bit 2GBDDR3/-		64-bit 4GB DDR4/-		64-bit 2GB DDR3 x 2/-
CPU Cores	-		-		-		-
CPU Frequency @ MHz					-		
PS Peripherals	-		-		-		-
PS USB 3.0	-		-		-		-
miniDP	-		-		-		-
SD CARD	1		1		1		1
HDMI In/Out	1 /1		1 /1		1 /1		1 /1
SSD (NVME)	-		-		-		-
SATA	-		-		2		-
MIPI	-		-		-		-
FMC HPC Expansion Connector	FMC HPC X 1	-	FMC HPC X 1	-	FMC HPC X 1		FMC HPC X 1
40-pin 2.54mm/120-pin 0.8mm connectors	1/2		1/2		1/1		1/1
USB to JTAG	1		1		1		1
SFP	2		2		2		2
LEDs/Push Buttons	5/5		5/5		2/2		2/2
PCIe	PCIe2.0 X 4		PCIe2.0 X 4		PCIe3.0 X 4		PCIe3.0 X 4
UART/RS485/CAN	1/-/-		1/-/-		1/-/-		1/-/-
Kit Carrier Board Dimensions (mm)	165 x 108		165 x 108		195 x 115		195 x 115
EEPROM	64Kbit		64Kbit		64Kbit		64Kbit
Power supply	12V/3A		12V/3A		12V/3A		12V/5A
Product code	EZ-KIT-K325T-A	EZ-KIT-K325T-B	EZ-KIT-K410T-A	EZ-KIT-K410T-B	EZ-KIT-KU040-A	EZ-KIT-KU060-A	EZ-KIT-V7690T-A

Notes

- EZ-KIT-K7325T-A and EZ-KIT-K7410T-A utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- EZ-KIT-K7325T-B and EZ-KIT-K7410T-B utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- EZ-KIT-KU040-A and EZ-KIT-KU060-A utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD Artix-7 SOM Evaluation Kits/Boards Selection Guide---EZ-KIT-A7/EZ-BRD-A7

Product Name	EZ-KIT-A735T	EZ-KIT-A775T	EZ-KIT-A7100T	EZ-KIT-A7200T	EZ-BRD-A735T	EZ-BRD-A775T	EZ-BRD-A7100T	EZ-BRD-A7200T
SOM Supported	EZ-SOM-A735T	EZ-SOM-A775T	EZ-SOM-A7100T	EZ-SOM-A7200T	-	-	-	-
FPGA Device Part on SOM	XC7A35T-2FGG484I	XC7A75T-2FGG484I	XC7A100T-2FGG484I	XC7A200T-2FGG484I	XC7A35T-2FGG484I	XC7A75T-2FGG484I	XC7A100T-2FGG484I	XC7A200T-2FGG484I
Gigabit Ethernet PL/PS	2/-		2/-		1/-		1/-	
DDR RAM on SOM PL/PS	32-bit 1GB DDR3/-		32-bit 1GB DDR3/-		32-bit 1GB DDR3/-		32-bit 1GB DDR3/-	
CPU Cores	-		-		-		-	
CPU Frequency @ MHz	-		-		-		-	
PS Peripherals	-		-		-		-	
PS USB 3.0	-		-		-		-	
miniDP	-		-		-		-	
SD CARD	1		1		1		1	
HDMI In/Out	1 /1		1 /1		-/1		-/1	
SSD (NVME)	-		-		-		-	
SATA	-		-		-		-	
MIPI	-		-		-		-	
FMC HPC Expansion Connector	-		-		-		-	
40-pin 2.54mm/120-pin 0.8mm connectors	2/-		2/-		2/-		2/-	
USB to JTAG	1		1		1		1	
SFP	2		2		1		-	
LEDs/Push Buttons	5/5		5/5		2/2		2/2	
PCIe	PCIe2.0 X 2		PCIe2.0 X 2		-		-	
UART/RS485/CAN	1/-/-		1/-/-		1/-/-		1/-/-	
Kit Carrier Board Dimensions (mm)	172 x 116		172 x 116		60 x 90		60 x 90	
EEPROM	64Kbit		64Kbit		64Kbit		64Kbit	
Power supply	12V/3A		12V/3A		5V/3A		5V/3A	
Product code	EZ-KIT-A735T-A	EZ-KIT-A775T-A	EZ-KIT-A7100T-A	EZ-KIT-A7200T-A	EZ-BRD-A735T-A	EZ-BRD-A775T-A	EZ-BRD-A7100T-A	EZ-BRD-A7200T-A

Notes

- EZ-KIT-A735T/75T/100T/200T utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- EZ-BRD-A735T/75T/100T/200T share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD Zynq Modules Selection Guide---EZ-SOM-7Z

Product Name	EZ-SOM-7Z010-A	EZ-SOM-7Z020-A	EZ-SOM-7Z030-B	EZ-SOM-7Z035-B	EZ-SOM-7Z035-C	EZ-SOM-7Z045-C	EZ-SOM-7Z100-C
FPGA Family	Zynq® 7000	Zynq® 7000	Zynq® 7000	Zynq® 7000	Zynq® 7000	Zynq® 7000	Zynq® 7000
FPGA Device Name	Z-7010	Z-7020	Z-7030	Z-7035	Z-7035	Z-7045	Z-7100
FPGA Speed Grade	2	2	2	2	2	2	2
FPGA Part Number	XC7Z010-2CLG400I	XC7Z020-2CLG400I	XC7Z030-2FFG676I	XC7Z035-2FFG676I	XC7Z035-2FFG900I	XC7Z045-2FFG900I	XC7Z100-2FFG900I
CPU Cores	2 x ARM® Cortex™-A9		2 x ARM® Cortex™-A9		2 x ARM® Cortex™-A9		
CPU Frequency @ MHz	667	767	800		800		
PS Peripherals	2 x CAN		2 x CAN		2 x CAN		
PS Ethernet USB	1 Gbps USB 2.0 OTG		1 Gbps USB 2.0 OTG		1 Gbps USB 2.0 OTG		
PS SDRAM	32-BIT 512MB	32-BIT 1GB	32-BIT 1GB	32-BIT 1GB	32-BIT 1GB		
PS SDRAM Bandwidth (MByte/s)	4264	4264	4264	4264	4264		
PL Logic Cells	28160	85120	125K	275K	275K	350K	444K
PL BlockRAM(kbit)	2160	5040	9.3Mb	17.6Mb	17.6Mb	19.2Mb	26.5Mb
DSP Slices	88	242	400	900	900	900	2020
PL MGT Transceivers	-		16		16		
PL Peripherals	-		-		-		
PL Gigabit Ethernet	-		-		-		
PL SDRAM	-		32-BIT 1GB		32-BIT 1GB		
PL SDRAM Bandwidth (MByte/s)	-		3200		3200		
Flash Memory	32M QSPI		32M QSPI/8G EMMC		32M QSPI/8G eMMC		
Connector IO Pins	PS 30 PL 92	PS 30 PL 116	PS 24 PL 164		PS 24 PL 240		
IO Voltage/IO Numbers	PS 1.8V/24 3.3V/6 PL 1.8/2.5/3.3V 92 OR 116		PS 1.8V 24 PL 1.8V 48, 1.8/2.5/3.3V 96		PS 1.8V 24 PL 1.8V 48, 1.8/2.5/3.3V 192		
Module Dimensions (mm)	60 x 45		60 x 45		83.8 x 64.8		
Temperature Range	-40~+85°C		-40~+85°C		-40~+85°C		
Boot Modes	JTAG QSPI		JTAG QSPI SD		JTAG QSPI eMMC SD		
Evaluation Kits	EZ-KIT-7Z010-A	EZ-KIT-7Z020-A	EZ-KIT-7Z030-B	EZ-KIT-7Z035-B	EZ-KIT-7Z035-C	EZ-KIT-7Z045-C	EZ-KIT-7Z100-C
Product Code	EZ-SOM-7Z010-A	EZ-SOM-7Z020-A	EZ-SOM-7Z030-B	EZ-SOM-7Z035-B	EZ-SOM-7Z035-C	EZ-SOM-7Z045-C	EZ-SOM-7Z100-C

Notes

- EZ-SOM-7Z010-A/7Z020-A share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- EZ-SOM-7Z030-B/7Z035-B share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- EZ-SOM-7Z035-C/7Z045-C/7Z100-C share the same PCB design and feature identical connectors and form factors. The only distinction lies in the FPGA devices onboard.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- All specification and release dates are subject to change without notice. Please verify component specification with vendors' datasheet.
- All trademarks are the property of their respective owners. All prices do not include shipping, taxes and duties.
- Please visit ez32.com for detailed information.

AMD ZYNQ SOM Evaluation Kits Selection Guide---EZ-KIT-7Z

Product Name	EZ-KIT-7Z010-A	EZ-KIT-7Z020-A	EZ-KIT-7Z030-B	EZ-KIT-7Z035-B	EZ-KIT-7Z035-C	EZ-KIT-7Z045-C	EZ-KIT-7Z100-C
SOM Supported	EZ-SOM-7Z010-A	EZ-SOM-7Z020-A	EZ-SOM-7Z030-B	EZ-SOM-7Z035-B	EZ-SOM-7Z035-C	EZ-SOM-7Z045-C	EZ-SOM-7Z100-C
FPGA Device Part on SOM	XC7Z010-2CLG400I	XC7Z020-2CLG400I	XC7Z030-2FFG676I	XC7Z035-2FFG676I	XC7Z035-2FFG900I	XC7Z045-2FFG900I	XC7Z100-2FFG900I
Gigabit Ethernet PL/PS	-/1		1/1		1/-		
DDR RAM on SOM PL/PS	-/32-bit 512MB DDR3	-/32-bit 1GB DDR3	32-bit 1GB DDR3/32-bit 1GB DDR3		32-bit 1GB DDR3/32-bit 1GB DDR3		
CPU Cores	2 x ARM® Cortex™-A9		2 x ARM® Cortex™-A9		2 x ARM® Cortex™-A9		
CPU Frequency @ MHz	667	767	800		800		
PS Peripherals	-		-		-		
PS USB 2.0 Host/Slave	1/1		2/-		4/-		
miniDP	-		-		-		
SD CARD	1		1		1		
HDMI In/Out	-/1		-/1		-/1		
SSD (NVME)	-		-		-		
SATA	-		-		1		
MIPI	-		-		-		
FMC HPC Expansion Connector	-		-		1		
40-pin 2.54mm/120-pin 0.8mm connectors	1/1		2/1		1/-		
USB to JTAG	1		1		1		
SFP	-		2		2		
LEDs/Push Buttons	4/4		5/5		5/5		
PCIe	-		PCIe2.0 X 4		PCIe2.0 X 4		
UART/RS485/CAN	1/1/1		1/1/1		1/1/1		
Kit Carrier Board Dimensions (mm)	120 x 90		172 x 116		170 x 100		
EEPROM	64Kbit		64Kbit		64Kbit		
Power supply	5V/3A		12V/2A		12V/2A		
Product code	EZ-KIT-7Z010-A	EZ-KIT-7Z020-A	EZ-KIT-7Z030-B	EZ-KIT-7Z035-B	EZ-KIT-7Z035-C	EZ-KIT-7Z045-C	EZ-KIT-7Z100-C

Notes

- EZ-KIT-7Z010-A and EZ-KIT-7Z020-A utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- EZ-KIT-7Z030-B and EZ-KIT-7Z035-B utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- EZ-KIT-7Z035-C, EZ-KIT-7Z045-C and EZ-KIT-7Z100-C utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD ZYNQ Software Defined Radio(SDR) Products Selection Guide---EZ-SDR

Product Name	EZ-SDR-020-A	EZ-SDR-020-B	EZ-SDR-035-A	EZ-SDR-045-A	EZ-SDR-100-A
EZ-SOM On Board	-	-	EZ-SOM-7Z035C	EZ-SOM-7Z045C	EZ-SOM-7Z100C
FPGA Device Part on Board	XC7Z020-2CLG400I	XC7Z020-2CLG400I	XC7Z035-2FFG900I	XC7Z045-2FFG900I	XC7Z100-2FFG900I
Gigabit Ethernet PL/PS	-/1	-/1	1/1		
DDR3 RAM PL/PS	-/32-bit 512MB	-/32-bit 1GB	32-bit 1GB/32-bit 1GB		
CPU Cores, Frequency	2 x ARM® Cortex™-A9 767MHz	2 x ARM® Cortex™-A9 800MHz	2 x ARM® Cortex™-A9 800MHz		
RF Transceiver	AD9361	AD9363	AD9361		
RF Frequency range	70M~6GHz	325M~3.8GHz	70M~6GHz		
Signal Bandwidth	200K~56MHz	200K~20MHz	200K~56MHz		
RF Clock	Acquiesce VCTCXO (0.5PPM), VCTCXO Optional		Acquiesce VCTCXO (0.1PPM),GPSDO Optional(5ppb)		
RF Channels TX/RX	2/2		2/2		
RF Channel Amplifier	2 TX Channels, 15db		2 TX Channels, 15db		
Clock Input/Output	1/1		1/1		
GPS	1		1		
EEPROM	64Kbit		64Kbit		
QSPI Flash	32MB		32MB		
SD CARD	1		1		
EMMC	-		8GB		
USB 2.0 OTG	1		1		
USB 3.0	-		1		
UART	1		1		
USB to JTAG	1		1		
FPGA Logic Cells	85K	85K	275K	350K	444K
Kit Carrier Board Dimensions (mm)	200 x 130		120 X 105		
Expansion Connector	40-PIN 2.54mm Connector X1		40-PIN 2.54mm Connector X1		
Power supply	12V/3A		12V/3A		
Product code	EZ-SDR-020-A	EZ-SDR-020-B	EZ-SDR-035-A	EZ-SDR-045-A	EZ-SDR-100-A

Notes

- EZ-SDR-035-A/045-A/100-A utilize the same carrier board, differing only in the System-on-Module (SOM) they incorporate.
- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD FMC Boards --- A/D, D/A

Product Name	EZ-AD-FL9767	EZ-ADDA-FL3867	EZ-AD-FL9643-S	EZ-AD-FL9643-D	EZ-ADDA-FL4322	EZ-ADDA-FH8052	EZ-AD-FL2514-D
AD/DA device	AD9767	AD9238/AD9767	AD9643/-	AD9643/-	AD9643/AD9122	AD9238/AD9767	AD250D14
Functionality	4 CH 14-bit A/D	2 CH 12-bit A/D, 2 CH 14-bit D/A	2 CH 14-bit A/D	4 CH 14-bit A/D	2 CH 14-bit A/D, 2 CH 16-bit D/A	2 CH 14-bit A/D, 2 CH 16-bit D/A	4 CH 14-bit A/D
AD/DA Channels	4/-	2/2	2/-	4/-	2/2	2/2	4/-
Connector Type	FMC-LPC	FMC-LPC	FMC-LPC	FMC-LPC	FMC-LPC	FMC-HPC	FMC-LPC
Trigger Channel/Clock Channel	-/-	1/-	1/1	1/1	1/1	1/1	1/-
AD Input Mode/DA Output Mode	AC/-	DC/DC	DC, AC Dual/-	DC, AC Dual/-	DC, AC Dual/DC	AC/AC	DC, AC Dual/-
AD/DA Precision	14-bit/-	12-bit/14-bit	14-bit/-	14-bit/-	14-bit/16-bit	14-bit/16-bit	14-bit/-
AD/DA Max Sample Rate	125/- MSPS	65/125 MSPS	250/- MSPS	250/- MSPS	125/250 MSPS	1/2.5 GSPS	250/- MSPS
Working Temperature	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C
Voltage/Current range	±5V/-	±5V/-	2VPP/-	2VPP/-	1.5VPP/8.7~31.7mA Adj	1.5VPP/4~20mA Adj	1.5VPP/-
Supply Voltage	12V	12V	12V	12V	12V	12V	12V
Product code	EZ-AD-FL9767-A	EZ-ADDA-FL3867-A	EZ-AD-FL9743-S	EZ-AD-FL9743-D	EZ-ADDA-FL4322-A	EZ-ADDA-FH8052-A	EZ-AD-FL2514-D

Notes

- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.



AMD FMC Boards --- USB3, Ethernet

Product Name	EZ-USB-3014
USB3 Device	CYUSB3014
Functionality	USB3 Device Interface
USB3 Speed	3.0Gbps
Connector Type	FMC-LPC
USB3 Connector	TYPEC
Working Temperature	-40~+85°C
Supply Voltage	5V
Product code	EZ-USB-3014-A

Product Name	EZ-ETH-8211F
Ethernet Device	RTL8211F
Functionality	4 CH Gige bit Ethernet
Ethernet Speed	1 Gbps
Connector Type	FMC-LPC
Ethernet Connector	RJ45 X 4
Working Temperature	-40~+85°C
Supply Voltage	5V
Product code	EZ-ETH-8211F-A

Notes

- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.

AMD Add-on Boards --- A/D, D/A, LCD, Camera

Product Name	EZ-ADDA-7606
A/D Device D/A Device	AD7606 DAC128S085
Functionality	2 CH 16-bit A/D, 2 CH 12-bit D/A
Sample Rate AD/DA	200KSPS/-
Connector Type	40-PIN 2.54mm
Resolution AD/DA	16-bit/12-bit
Working Temperature	-40~+85°C
Supply Voltage AD/DA	-10~10V/0~5V
Product code	EZ-ADDA-7606-A

Product Name	EZ-LCD-430
Resolution	480 X 272
Functionality	4.3" LCD
Interface Bits	RGB 24 bits
Connector Type	40-PIN 2.54mm
Weight	44g
Working Temperature	-40~+85°C
Supply Voltage	12V
Product code	EZ-LCD-430-A

Product Name	EZ-CAM-5640D	EZ-CAM-5640S
Sensor Device	OV5640 X 2	OV5640 X 1
Functionality	Dual Camera	Single Camera
Resolution	5 Million Pixels	
Connector Type	40-PIN 2.54mm	
Captured Image	2592X1444, 1080P, 1280x960, 640x480, 320x240	
Working Temperature	0~+50°C	
Supply Voltage	3.3V	
Product code	EZ-CAM-5640D-A	EZ-CAM-5640S-A

Notes

- All trademarks are the property of their respective owners.
- Not all features are available simultaneously. Please check the documentation to know the applicable constraints.
- Please visit ez32.com for detailed information.