

 XILINX® Xilinx-based Products



ENCLUSTRA
FPGA SOLUTIONS

Selection Guide and Roadmap

Valid as of October 5th 2021. Consult the product web pages for a full listing of available models.

	Mars™ ZX2		Mars™ ZX3		Mars™ XU3		
FPGA Family	Zynq®-7000		Zynq®-7000		Zynq® UltraScale+™		
FPGA Device Name	Z-7010	Z-7020	Z-7020		ZU2CG	ZU2EG	ZU3EG
FPGA Speed Grade*2	2	2	1	2	1	1	2
FPGA Part Number*2	XC7Z010-2CLG400I	XC7Z020-2CLG400I	XC7Z020-1CLG484C	XC7Z020-2CLG484I	XCZU2CG-1SBVA484E	XCZU2EG-1SBVA484I	XCZU3EG-2SBVA484I
CPU Cores	2 x ARM® Cortex™-A9		2 x ARM® Cortex™-A9		2 x A53 2 x R5	4 x ARM® Cortex™-A53 2 x Cortex™-R5	
CPU Frequency @ MHz	766		667	766	1,200 500		1,333 533
PS Peripherals	2 x CAN		2 x CAN		DP PCIe® Gen2 x4 SATA SGMII CAN	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN	
PS Ethernet USB	1 Gbps USB 2.0 OTG		1 Gbps USB 2.0 OTG		1 Gbps USB 3.0		
PS SDRAM Size (MByte)	512		512	1,024	1,024		2,048
PS SDRAM Type Bandwidth (MByte/s)	DDR3L 2,132		DDR3L 4,264		DDR4 4,264		
PL System Logic Cells	28'160	85'120	85'120		103'000		154'000
PL Block RAM (kbit)	2'160	5'040	5'040		5'400		7'776
PL DSP Systolic FIR (GMAC/s)	88	242	204	242	310		558
PL MGT Transceivers @ Gbps*6	-	-	-		-		
PL Peripherals	-	-	-		-		
PL Ethernet USB*5	-	-	1 Gbps		-		
PL SDRAM Size (MByte)	-	-	-		-		
PL SDRAM Type Bandwidth (MByte/s)	-	-	-		-		
Flash Memory	64M QSPI		64M QSPI 512M NAND		64M QSPI 16G eMMC		
Connector Pins IO Pins	200 108		200 108		200 108		
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	96 - - 12	108 - - 12	108 - - 12		24 52 - 12		
Module Dimensions (mm)	67.6 x 30		67.6 x 30		67.6 x 30		
Temperature Range*2	-40..+85°C		0..+70°C	-40..+85°C	0..+85°C	-40..+85°C	
Boot Modes	QSPI SD Card		QSPI SD Card		QSPI SD Card eMMC		
Product Status	Active		Active		Active		
Estimated Product Lifetime*3	2030+		2030+		2030+		
Preferred Model MOQ*4	Yes	Yes	Yes	Yes	Yes	No 70	Yes
Product Model	MA-ZX2-10-2I-D9	MA-ZX2-20-2I-D9	MA-ZX3-20-1C-D9	MA-ZX3-20-2I-D10	MA-XU3-2CG-1E-D10	MA-XU3-2EG-1I-D10	MA-XU3-3EG-2I-D11

*** Notes**

1. We are actively looking for interested customers in this or a similar module. Please contact us with your detailed requirements.
2. The module is also available in different speed and temperature grades. Visit the product web page for more information.
3. Please contact us about production data backup and module production license options.
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General notes

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	Mars™ AX3			Mercury+™ KX2	
FPGA Family	Artix®-7			Kintex®-7	
FPGA Device Name	35	50	100	160T	410T
FPGA Speed Grade*2	1	1	2	1	2
FPGA Part Number*2	XC7A35T-1CSG324I	XC7A50T-1CSG324I	XC7A100T-2CSG324I	XC7K160T-1FBG676C	XC7K410T-2FFG676I
CPU Cores	-			-	
CPU Frequency @ MHz	-			-	
PS Peripherals	-			-	
PS Ethernet USB	-			-	
PS SDRAM Size (MByte)	-			-	
PS SDRAM Type Bandwidth (MByte/s)	-			-	
PL System Logic Cells	33'280	52'160	101'440	162'240	406'720
PL Block RAM (kbit)	1'800	2'700	4'860	11'700	28'620
PL DSP Systolic FIR (GMAC/s)	84	111	264	780	2'002
PL MGT Transceivers @ Gbps*6	-			8 @ 10.3125	
PL Peripherals	-			PCIe® Gen2 x8	
PL Ethernet USB*5	1 Gbps			2 x 1 Gbps FTDI USB 2.0	
PL SDRAM Size (MByte)	256			2'048	
PL SDRAM Type Bandwidth (MByte/s)	DDR3 1,600			DDR3L 12,800	
Flash Memory	64M QSPI			64M QSPI	
Connector Pins IO Pins	200 108			504 256	
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	108 - - -			216 - - -	
Module Dimensions (mm)	67.6 x 30			74 x 54	
Temperature Range*2	-40..+85°C			-40..+85°C	
Boot Modes	Slave Serial QSPI			Slave Serial QSPI USB2	
Product Status	Active			Active	
Estimated Product Lifetime*3	2030+			2030+	
Preferred Model MOQ*4	Yes	No 90	Yes	Yes	No 20
Product Model	MA-AX3-35-11-D8	MA-AX3-50-11-D8	MA-AX3-100-21-D8	ME-KX2-160-21-D11-P	ME-KX2-410-21-D11-P

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	Mercury™ ZX1			Mercury™ ZX5			Mercury+™ ZX6	
FPGA Family	Zynq®-7000			Zynq®-7000			Zynq®-7000	
FPGA Device Name	Z-7030	Z-7035	Z-7045	Z-7015	Z-7030		Z-7014S	Z-7020
FPGA Speed Grade*2	2	1	2	2	1	3	1	2
FPGA Part Number*2	XC7Z030-2FBG676I	XC7Z035-1FBG676I	XC7Z045-2FFG676I	XC7Z015-2CLG485I	XC7Z030-1SBG485I	XC7Z030-3SBG485E	XC7Z014S-1CLG484C	XC7Z020-2CLG484I
CPU Cores	2 x ARM® Cortex™-A9			2 x ARM® Cortex™-A9			ARM® Cortex™-A9	2 x ARM® Cortex™-A9
CPU Frequency @ MHz	800	667	800	766	667	1'000	667	766
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 Size (MByte)	1,024			1,024			512	1,024
PS SDRAM Type Bandwidth (MByte/s)	DDR3L 4,264			DDR3L 4,264		DDR3L 5,333	DDR3L 4,264	
PL System Logic Cells	125'000	275'000	350'000	73'920	125'000		64'960	85'120
PL Block RAM (kbit)	9'540	18'000	19'620	3'420	9'540		3'852	5'040
PL DSP Systolic FIR (GMAC/s)	520	981	1'170	176	438	593	158	242
PL MGT Transceivers @ Gbps*6	4 @ 6.6	8 @ 6.6	8 @ 10.3125	4 @ 6.25	4 @ 6.6		-	
PL Peripherals	PCIe® Gen2 x4	PCIe® Gen2 x8		PCIe® Gen2 x4			-	
PL Ethernet USB*5	2 x 100 Mbps			-			-	
PL SDRAM Size (MByte)	256			-			-	
PL SDRAM Type Bandwidth (MByte/s)	DDR3L 2,133	DDR3L 1,600	DDR3L 3,200	-			-	
Flash Memory	64M QSPI 512M NAND			64M QSPI 512M NAND			64M QSPI 16G eMMC	
Connector Pins IO Pins	336 170	336 178		336 178			504 208	
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	66 84 - 12	66 72 - 12		146 - - 12	54 92 - 12		196 - - 12	
Module Dimensions (mm)	64 x 54			56 x 54			65 x 54	
Temperature Range*2	-40..+85°C			-40..+85°C		0..+70°C	0..+70°C	-40..+85°C
Boot Modes	QSPI SD Card NAND			QSPI SD Card NAND			QSPI SD Card	
Product Status	Active			Active			Concept ¹	
Estimated Product Lifetime*3	2030+			2030+			2030+	
Preferred Model MOQ*4	Yes	Yes	Yes	Yes	Yes	No 40	TBD	
Product Model	ME-ZX1-30-2I-D10	ME-ZX1-35-1I-D10	ME-ZX1-45-2I-D10-P	ME-ZX5-15-2I-D10	ME-ZX5-30-1I-D10	ME-ZX5-30-3C-D10	ME-ZX6-14S-1C-D9	ME-ZX6-20-2I-D10

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	Mercury+™ XU1					Mercury+™ XU1 (cont.)					
FPGA Family	Zynq® UltraScale+™					Zynq® UltraScale+™					
FPGA Device Name	ZU6CG		ZU6EG		ZU9EG	ZU9EG		ZU9EG	ZU15EG	ZU15EG	
FPGA Speed Grade*2	1		1		1	2		3	1	2	
FPGA Part Number*2	XCZU6CG-1FFVC900E		XCZU6EG-1FFVC900I		XCZU9EG-1FFVC900E	XCZU9EG-2FFVC900I		XCZU9EG-3FFVC900E	XCZU15EG-1FFVC900E	XCZU15EG-2FFVC900I	
CPU Cores	2 x A53 2 x R5		4 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		1,500 600	1,200 500	1,333 533	
PS Peripherals	DisplayPort PCIe® Gen2 x4 SATA SGMII CAN		Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN			Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN					
PS Ethernet USB	2 x 1 Gbps 2 x USB 3.0					2 x 1 Gbps 2 x USB 3.0					
PS SDRAM Size (MByte)	2,048 + ECC					4,096 + ECC					
PS SDRAM Type Bandwidth (MByte/s)	DDR4 19,200					DDR4 19,200					
PL System Logic Cells	469'446			599'550		599'550			746'550		
PL Block RAM (kbit)	25'704			32'832		32'832			59'040		
PL DSP Systolic FIR (GMAC/s)	2'545			3'251		3'906		4'491	4'551	5'468	
PL MGT Transceivers @ Gbps*6	16 @ 12.5	12 @ 12.5	16 @ 12.5	12 @ 12.5	16 @ 12.5	12 @ 15	16 @ 15	12 @ 15	16 @ 12.5	12 @ 15	16 @ 15
PL Peripherals	-					-					
PL Ethernet USB*5	-					-					
PL SDRAM Size (MByte)	-					-					
PL SDRAM Type Bandwidth (MByte/s)	-					-					
Flash Memory	64M QSPI 16G eMMC					64M QSPI 16G eMMC					
Connector Pins IO Pins	504 294					504 294					
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	52 128 - 14	52 148 - 14	52 128 - 14	52 148 - 14	52 128 - 14	52 148 - 14	52 128 - 14	52 148 - 14	52 128 - 14	52 148 - 14	52 128 - 14
Module Dimensions (mm)	74 x 54					74 x 54					
Temperature Range*2	0..+85°C		-40..+85°C		0..+85°C	-40..+85°C		0..+85°C		-40..+85°C	
Boot Modes	QSPI SD Card eMMC					QSPI SD Card eMMC					
Product Status	Active					Active					
Estimated Product Lifetime*3	2030+					2030+					
Preferred Model MOQ*4	Yes	No 30	No 20	Yes	No 20	No 20	No 20	No 20	Yes	Yes	No 20
Product Model	ME-XU1-6CG-1E-D11E-G1	ME-XU1-6CG-1E-D11E	ME-XU1-6EG-1I-D11E-G1	ME-XU1-6EG-1I-D11E	ME-XU1-9EG-1E-D11E-G1	ME-XU1-9EG-2I-D12E	ME-XU1-9EG-2I-D12E-G1	ME-XU1-9EG-3E-D12E	ME-XU1-15EG-1E-D12E-G1	ME-XU1-15EG-2I-D12E	ME-XU1-15EG-2I-D12E-G1

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	Mercury™ XU5				Mercury™ XU5 (cont.)					
FPGA Family	Zynq® UltraScale+™				Zynq® UltraScale+™					
FPGA Device Name	ZU2CG	ZU2EG	ZU3EG	ZU4CG	ZU4EV	ZU4EV	ZU5EV	ZU5EV	ZU5EV	ZU5EV
FPGA Speed Grade*2	1	1	2	1	1	1	1	2	2	3
FPGA Part Number*2	XCZU2CG-1SFVC784E	XCZU2EG-1SFVC784I	XCZU3EG-2SFVC784I	XCZU4CG-1SFVC784E	XCZU4EV-1SFVC784I	XCZU4EV-1SFVC784I	XCZU5EV-1SFVC784E	XCZU5EV-2SFVC784I	XCZU5EV-2SFVC784I	XCZU5EV-3SFVC784E
CPU Cores	2 x ARM® Cortex™-A53 2 x Cortex™-R5	4 x ARM® Cortex™-A53 2 x Cortex™-R5		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	1,200 500	1,200 500			1,333 533		1,500 600
PS Peripherals	DP PCIe® Gen2 x4 SATA SGMII CAN	Mali™ DP PCIe® Gen2 x4 SATA SGMII CAN		CAN	Mali™ DP PCIe® Gen2 x4 SATA SGMII CAN	Mali™ CAN	Mali™ DP PCIe® Gen2 x4 SATA SGMII CAN		Mali™ CAN	Mali™ DP PCIe® Gen2 x4 SATA SGMII CAN
PS Ethernet USB	1 Gbps 2 x USB 3.0			1 Gbps 2 x USB 2.0	1 Gbps 2 x USB 3.0	1 Gbps 2 x USB 2.0	1 Gbps 2 x USB 3.0		1 Gbps 2 x USB 2.0	1 Gbps 2 x USB 3.0
PS SDRAM Size (MByte)	1,024	2,048 + ECC			2,048 + ECC			4,096 + ECC		8,192 + ECC
PS SDRAM Type Bandwidth (MByte/s)	DDR4 9,600	DDR4 19,200			DDR4 19,200					
PL System Logic Cells	103'320		154'350	192'150	192'150			256'200		
PL Block RAM (kbit)	5'400		7'776	18'432	18'432			23'616		
PL DSP Systolic FIR (GMAC/s)	310		558	939	939			1'610	1'934	2'224
PL MGT Transceivers @ Gbps*6	-			4 @ 12.5	4 @ 12.5					
PL Peripherals	-			PCIe® Gen3 x4	H.265 Codec PCIe® Gen3 x4					
PL Ethernet USB*5	1 Gbps				1 Gbps					
PL SDRAM Size (MByte)	512				512			1,024	2,048	
PL SDRAM Type Bandwidth (MByte/s)	DDR4 4,266		DDR4 4,800	DDR4 4,266	DDR4 4,266			DDR4 4,800		
Flash Memory	64M QSPI 16G eMMC				64M QSPI 16G eMMC					
Connector Pins IO Pins	336 178				336 178					
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	52 92 - 14			54 92 - 12	52 72 - 14	54 92 - 12	52 72 - 14		54 92 - 12	52 72 - 14
Module Dimensions (mm)	56 x 54				56 x 54					
Temperature Range*2	0..+85°C	-40..+85°C		0..+85°C	-40..+85°C			0..+85°C	-40..+85°C	0..+85°C
Boot Modes	QSPI SD Card eMMC				QSPI SD Card eMMC					
Product Status	Active				Active					
Estimated Product Lifetime*3	2030+				2030+					
Preferred Model MOQ*4	Yes	Yes	Yes	No 50	Yes	Yes	No 30	Yes	No 30	No 20
Product Model	ME-XU5-2CG-1E-D10H	ME-XU5-2EG-1I-D11E	ME-XU5-3EG-2I-D11E	ME-XU5-4CG-1E-D11E-G1	ME-XU5-4EV-1I-D11E	ME-XU5-4EV-1I-D11E-G1	ME-XU5-5EV-1E-D11E	ME-XU5-5EV-2I-D12E	ME-XU5-5EV-2I-D12E-G1	ME-XU5-5EV-3E-D13E

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	Andromeda™ XZU90		Andromeda™ XZU65		
FPGA Family	Zynq® UltraScale+™		Zynq® UltraScale+™		
FPGA Device Name	ZU17EG	ZU19EG	ZU7EG	ZU7EV	ZU11EG
FPGA Speed Grade*2	1	2	2	2	2
FPGA Part Number*2	XCZU17EG-FFVD1760E	XCZU19EG-2FFVD1760I	XCZU7EG-2FFVC1156I	XCZU7EV-2FFVC1156I	XCZU11EG-2FFVC1156I
CPU Cores	4 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	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 1 x USB 3.0		1 Gbps 1 x USB 3.0		
PS SDRAM Size (MByte)	4,096 + ECC	8,192 + ECC	4,096 + ECC		
PS SDRAM Type Bandwidth (MByte/s)	DDR4 19,200		DDR4 19,200		
PL System Logic Cells	926'194	1'143'450	504'000	504'001	653'100
PL Block RAM (kbit)	58'032	72'288	38'880	38'880	44'640
PL DSP Systolic FIR (GMAC/s)	2'051	3'050	2'678	2'678	4'538
PL MGT Transceivers @ Gbps*6	28 @ 25 + 44 @ 12.5	28 @ 25 + 44 @ 16.3	20 @ 25		
PL Peripherals	4 x PCIe® Gen3 x16 2 x 150G Interlaken 2 x 100G Ethernet	5 x PCIe® Gen3 x16 4 x 150G Interlaken 4 x 100G Ethernet	PCIe® Gen3 x16	PCIe® Gen3 x16 H.265 Codec	PCIe® Gen3 x16
PL Ethernet USB*5	1 Gbps		1 Gbps		
PL SDRAM Size (MByte)	-		4'096		
PL SDRAM Type Bandwidth (MByte/s)	-		DDR4 19,200		
Flash Memory	128M QSPI 16G eMMC		128M QSPI 16G eMMC		
Connector Pins IO Pins	1440 686		720 322		
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	24 260 - 22		24 156 - 22		
Module Dimensions (mm)	84 x 60		68 x 52		
Temperature Range*2	0..+85°C	-40..+85°C	-40..+85°C		
Boot Modes	QSPI SD Card eMMC		QSPI SD Card eMMC		
Product Status	Early Access		Development		
Estimated Product Lifetime*3	2030+		2030+		
Preferred Model MOQ*4	TBD		TBD		
Product Model	AM-XZU90-17EG-1E-D12E	AM-XZU90-19EG-2I-D13E	AM-XZU65-7EG-2I-D3	AM-XZU65-7EV-2I-D3	AM-XZU65-11EG-2I-D3

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