

 XILINX® Xilinx-based Products



ENCLUSTRA
FPGA SOLUTIONS

Selection Guide and Roadmap

Valid as of 30th August 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
Budgetary Price 1+ (EUR)	142	184	215	263	225	329	439
Budgetary Price 30+ (EUR)	130	169	202	242	213	281	379
Budgetary Price 100+ (EUR)	119	155	190	222	199	233	332
Budgetary Price 1000+ (EUR)	97	130	148	173	174	206	304
Budgetary Price 10000+ (EUR)	78	108	105	120	142	163	241
Kit (including accessory kit) (EUR)	284	326	357	405	367	471	581

*** 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-AX3-35-1I-D8	MA-AX3-50-1I-D8	MA-AX3-100-2I-D8	ME-KX2-160-2I-D11-P	ME-KX2-410-2I-D11-P
Budgetary Price 1+ (EUR)	165	209	293	628	1671
Budgetary Price 30+ (EUR)	155	192	264	581	1551
Budgetary Price 100+ (EUR)	135	167	228	524	1432
Budgetary Price 1000+ (EUR)	105	119	177	399	1218
Budgetary Price 10000+ (EUR)	82	88	137	317	936
Kit (including accessory kit) (EUR)	307	351	435	1034	2077

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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
Budgetary Price 1+ (EUR)	455	792	1099	336	410	585	TBD	TBD
Budgetary Price 30+ (EUR)	413	723	997	285	330	458	TBD	TBD
Budgetary Price 100+ (EUR)	362	606	850	242	272	371	TBD	TBD
Budgetary Price 1000+ (EUR)	290	474	649	191	232	283	TBD	TBD
Budgetary Price 10000+ (EUR)	217	335	486	147	177	211	TBD	TBD
Kit (including accessory kit) (EUR)	779	1116	1423	660	734	909		

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	Mercury+™ XU1					Mercury+™ XU1 (cont.)					
FPGA Family	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
Budgetary Price 1+ (EUR)	759	759	1043	1043	1094	1606	1606	1647	1415	1673	1673
Budgetary Price 30+ (EUR)	612	612	884	884	901	1322	1322	1515	1198	1539	1539
Budgetary Price 100+ (EUR)	510	510	764	764	762	1120	1120	1400	1037	1422	1422
Budgetary Price 1000+ (EUR)	446	446	690	690	682	1016	1016	1224	947	1243	1243
Budgetary Price 10000+ (EUR)	368	368	580	580	565	851	851	1020	821	1073	1073
Kit (including accessory kit) (EUR)	994	994	1278	1278	1329	1841	1841	1882	1650	1908	1908

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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
Budgetary Price 1+ (EUR)	301	354	529	474	662	662	750	927	927	1066
Budgetary Price 30+ (EUR)	265	332	495	410	561	561	635	785	785	981
Budgetary Price 100+ (EUR)	235	310	464	359	484	484	549	679	679	906
Budgetary Price 1000+ (EUR)	211	271	411	327	443	443	503	625	625	795
Budgetary Price 10000+ (EUR)	176	223	340	262	363	363	408	514	514	673
Kit (including accessory kit) (EUR)	536	589	764	709	897	897	985	1162	1162	1301

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FPGA Device Name	ZU6EG	ZU9EG	ZU15EG	ZU4CG	ZU5EV	ZU7EV	
FPGA Speed Grade*2	1	2	2	1	1	2	
FPGA Part Number*2	XCZU6EG-1FFVC900I	XCZU9EG-2FFVC900I	XCZU15EG-2FFVC900I	XCZU4CG-1FBVB900E	XCZU5EV-1FBVB900I	XCZU7EV-1FBVB900E	XCZU7EV-2FBVB900I
CPU Cores	4 x ARM® Cortex™-A53 2 x Cortex™-R5			2 x A53 2 x R5		4 x ARM® Cortex™-A53 2 x Cortex™-R5	
CPU Frequency @ MHz	1,200 500		1,333 533		1,200 500		1,333 533
PS Peripherals	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN			DP 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		2,048 + ECC	4,096 + ECC	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	746'550	192'150	256'200	504'000	
PL Block RAM (kbit)	25'704	32'832	59'040	18'432	23'616	38'880	
PL DSP Systolic FIR (GMAC/s)	2'545	3'906	5'468	939	1'610	2'229	2'678
PL MGT Transceivers @ Gbps*6	16 @ 12.5	16 @ 15		16 @ 12.5			16 @ 15
PL Peripherals	-			PCIe® Gen3 x16	PCIe® Gen3 x16 H.265 Codec		
PL Ethernet USB*5	-			-			
PL SDRAM Size (MByte)	1'024	2'048		1'024	2'048	1'024	2'048
PL SDRAM Type Bandwidth (MByte/s)	DDR4 9,600			DDR4 9,600			
Flash Memory	64M QSPI 16G eMMC			64M QSPI 16G eMMC			
Connector Pins IO Pins	504 236			504 236			
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	52 50 20 14			52 50 20 14			
Module Dimensions (mm)	74 x 54			74 x 54			
Temperature Range*2	-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 20	Yes	Yes	No 20	No 20	Yes
Product Model	ME-XU7-6EG-1I-D11E	ME-XU7-9EG-2I-D12E	ME-XU7-15EG-2I-D12E	ME-XU8-4CG-1E-D11E	ME-XU8-5EV-1I-D12E	ME-XU8-7EV-1E-D11E	ME-XU8-7EV-2I-D12E
Budgetary Price 1+ (EUR)	1064	1678	1789	634	1039	1117	1415
Budgetary Price 30+ (EUR)	970	1418	1636	577	948	1011	1283
Budgetary Price 100+ (EUR)	869	1259	1485	506	848	900	1150
Budgetary Price 1000+ (EUR)	738	1070	1288	415	719	759	980
Budgetary Price 10000+ (EUR)	611	884	1109	346	592	629	808
Kit (including accessory kit) (EUR)	1299	1913	2024	869	1274	1352	1650

*** Notes**

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Valid as of 30th August 2021. Consult the product web pages for a full listing of available models.

	Mercury+™ XU9			Mercury+™ XU6					
FPGA Family	Zynq® UltraScale+™			Zynq® UltraScale+™					
FPGA Device Name	ZU4CG	ZU5EV	ZU7EV	ZU2CG	ZU2EG	ZU3EG	ZU4CG	ZU4EV	ZU5EV
FPGA Speed Grade*2	1	1	2	1	1	2	1	1	2
FPGA Part Number*2	XCZU4CG-1FBVB900E	XCZU5EV-1FBVB900I	XCZU7EV-2FBVB900I	XCZU2CG-1SFVC784E	XCZU2EG-1SFVC784I	XCZU3EG-2SFVC784I	XCZU4CG-1SFVC784E	XCZU4EV-1SFVC784I	XCZU5EV-2SFVC784I
CPU Cores	2 x A53 2 x R5		4 x ARM® Cortex™-A53 2 x Cortex™-R5	2 x A53 2 x R5	4 x ARM® Cortex™-A53 2 x Cortex™-R5		2 x A53 2 x R5	4 x ARM® Cortex™-A53 2 x Cortex™-R5	
CPU Frequency @ MHz	1,200 500		1,333 533	1,200 500		1,333 533	1,200 500		1,333 533
PS Peripherals	DP PCIe® Gen2 x4 SATA SGMII CAN	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN		DP PCIe® Gen2 x4 SATA SGMII CAN	Mali™ DisplayPort PCIe® Gen2 x4 SATA SGMII CAN		DP 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			1 Gbps USB 3.0					
PS SDRAM Size (MByte)	2,048 + ECC	4,096 + ECC		1024	8,192 + ECC	2048	4096	4,096 + ECC	
PS SDRAM Type Bandwidth (MByte/s)	DDR4 19,200			DDR4 9,600	DDR4 19,200				
PL System Logic Cells	192'150	256'200	504'000	103'320		154'350	192'150	256'200	
PL Block RAM (kbit)	18'432	23'616	38'880	5'400	7'776		18'432	23'616	
PL DSP Systolic FIR (GMAC/s)	939	1'610	2'678	310	558		939	1'934	
PL MGT Transceivers @ Gbps*6	16 @ 12.5		16 @ 15	-		4 @ 12.5			
PL Peripherals	PCIe® Gen3 x16	PCIe® Gen3 x16 H.265 Codec		-		PCIe® Gen3 x4	PCIe® Gen3 x4 H.265 Codec		
PL Ethernet USB*5	-			-					
PL SDRAM Size (MByte)	2'048			-					
PL SDRAM Type Bandwidth (MByte/s)	DDR4 19,200			-					
Flash Memory	64M QSPI 16G eMMC			64M QSPI 16G eMMC					
Connector Pins IO Pins	504 192			504 274		504 294			
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	52 - 26 14			96 144 - 14					
Module Dimensions (mm)	74 x 54			65 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	No 30	No 20	Yes	Yes	Yes	No 40	Yes	No 40	Yes
Product Model	ME-XU9-4CG-1E-D11E	ME-XU9-5EV-1I-D12E-L11	ME-XU9-7EV-2I-D12E-L11	ME-XU6-2CG-1E-D10H	ME-XU6-2EG-1I-D13E	ME-XU6-3EG-2I-D11	ME-XU6-4CG-1E-D12	ME-XU6-4EV-1I-D12	ME-XU6-5EV-2I-D12E
Budgetary Price 1+ (EUR)	696	1100	1495	253	540	549	455	640	960
Budgetary Price 30+ (EUR)	628	995	1344	226	467	474	393	542	790
Budgetary Price 100+ (EUR)	548	886	1197	202	409	416	344	468	670
Budgetary Price 1000+ (EUR)	442	742	1008	183	375	382	314	429	612
Budgetary Price 10000+ (EUR)	360	601	821	155	327	318	255	355	501
Kit (including accessory kit) (EUR)	931	1335	1730	488	775	784	690	875	1195

* Notes

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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
Budgetary Price 1+ (EUR)	3056	5280	TBD	TBD	TBD
Budgetary Price 30+ (EUR)	2675	4632	TBD	TBD	TBD
Budgetary Price 100+ (EUR)	2415	4165	TBD	TBD	TBD
Budgetary Price 1000+ (EUR)	2035	3534	TBD	TBD	TBD
Budgetary Price 10000+ (EUR)	1363	2336	TBD	TBD	TBD

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