



ENCLUSTRA
FPGA SOLUTIONS

Selection Guide and Roadmap

Valid as of 9 th September 2018	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	1	2	1	2	1	2	1	1	2
FPGA Part Number ²	XC7Z010-1CLG400C	XC7Z010-2CLG400I	XC7Z020-1CLG400C	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	667	766	667	766	667	766	1,200 500		1,333 533
PS Peripherals	2 x CAN				2 x CAN		DP PCIe® Gen2 x4 SATA EMAC CAN	Mali™ DisplayPort PCIe® Gen2 x4 SATA 3.1 EMAC 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 (MMAC/s)	74	88	204	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	0..+70°C	-40..+85°C	0..+70°C	-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	Mass Production				Mass Production		Mass Production		
Estimated Product Lifetime ³	2030+				2030+		2030+		
Preferred Configuration MOQ ⁴	No 150	Yes	No 120	Yes	Yes	Yes	Yes	No 70	Yes
Module Order Code	MA-ZX2-10-1C-D9	MA-ZX2-10-2I-D9	MA-ZX2-20-1C-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+ (USD)	153	161	193	202	244	309	238	322	442
Budgetary Price 30+ (USD)	143	150	181	188	229	283	223	292	413
Budgetary Price 100+ (USD)	134	138	168	175	214	259	210	264	386
Budgetary Price 1000+ (USD)	116	120	149	152	169	205	185	225	344
Budgetary Price 10000+ (USD)	93	96	120	123	121	146	151	177	272

*** Notes**

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2. The module is also available in different speed and temperature grades. Visit the product web page for more information.
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5. Our FPGA Manager™ IP Solution offers simple data streaming to/from Windows/Linux/Embedded Linux hosts.
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Valid as of 9 th September 2018	Mars™ MX1		Mars™ MX2		Mars™ AX2		Mars™ AX3			
FPGA Family	Spartan®-6 LX		Spartan®-6 LXT		Artix®-7		Artix®-7			
FPGA Device Name	45		45		100	200	35	50	100	
FPGA Speed Grade ²	3	3	3	3	2	2	1	1	1	2
FPGA Part Number ²	XC6SLX45-3CSG324C	XC6SLX45-3CSG324I	XC6SLX45T-3CSG324C	XC6SLX45T-3CSG324I	XC7A100T-2FGG484E	XC7A200T-2FBG484I	XC7A35T-1CSG324I	XC7A50T-1CSG324C	XC7A100T-1CSG324C	XC7A100T-2CSG324I
CPU Cores	-	-	-	-	-	-	-	-	-	-
CPU Frequency @ MHz	-	-	-	-	-	-	-	-	-	-
PS Peripherals	-	-	-	-	-	-	-	-	-	-
PS Ethernet USB	-	-	-	-	-	-	-	-	-	-
PS SDRAM Size (MByte)	-	-	-	-	-	-	-	-	-	-
PS SDRAM Type Bandwidth (MByte/s)	-	-	-	-	-	-	-	-	-	-
PL System Logic Cells	43'661		43'661		101'440	215'360	33'280	52'160	101'440	
PL Block RAM (kbit)	2'088		2'088		4'860	13'140	1'800	2'700	4'860	
PL DSP Systolic FIR (MMAC/s)	45		45		264	814	84	111	223	264
PL MGT Transceivers @ Gbps ⁶	-	-	2 @ 3.2		4 @ 6.25		-	-	-	-
PL Peripherals	-	-	PCIe® Gen1 x1		PCIe® Gen2 x4		-	-	-	-
PL Ethernet USB ⁵	2 x 100 Mbps		1 Gbps		1 Gbps		1 Gbps			
PL SDRAM Size (MByte)	128		128	256	512 + 512		256			
PL SDRAM Type Bandwidth (MByte/s)	DDR2 1,600		DDR2 1,600		2 x DDR3 3,200		DDR3 1,600			
Flash Memory	16M QSPI		16M QSPI		16M QSPI		64M QSPI			
Connector Pins IO Pins	200 108		200 108		200 108		200 108			
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	108 - - -		96 - - -		88 - - -		108 - - -			
Module Dimensions (mm)	67.6 x 30		67.6 x 30		67.6 x 40		67.6 x 30			
Temperature Range ²	0..+70°C	-40..+85°C	0..+70°C	-40..+85°C	0..+70°C	-40..+85°C	-40..+85°C	0..+70°C		-40..+85°C
Boot Modes	Slave Serial QSPI		Slave Serial QSPI		Slave Serial QSPI		Slave Serial QSPI			
Product Status	Mature		Mature		Advance*1		Mass Production			
Estimated Product Lifetime ³	2020		2020		TBD		2030+			
Preferred Configuration MOQ ⁴	Yes	No 90	Yes	No 80	TBD		Yes	No 120	No 100	Yes
Module Order Code	MA-MX1-45-3C-D7	MA-MX1-45-3I-D7	MA-MX2-45-3C-D7	MA-MX2-45-3I-D8	MA-AX2-100-2E-D10	MA-AX2-200-2I-D10	MA-AX3-35-1I-D8	MA-AX3-50-1C-D8	MA-AX3-100-1C-D8	MA-AX3-100-2I-D8
Budgetary Price 1+ (USD)	222	303	258	327	436	529	157	183	235	299
Budgetary Price 30+ (USD)	199	253	238	290	393	473	149	172	215	272
Budgetary Price 100+ (USD)	178	213	219	257	354	424	140	161	198	249
Budgetary Price 1000+ (USD)	135	149	175	192	275	318	116	121	160	200
Budgetary Price 10000+ (USD)	96	100	129	135	187	231	91	90	124	157

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Valid as of 9 th September 2018	Mercury™ KX1			Mercury+™ KX2			
FPGA Family	Kintex®-7			Kintex®-7			
FPGA Device Name	160T	325T	410T	160T	160T	325T	410T
FPGA Speed Grade ²	1	2	2	1	2	2	2
FPGA Part Number ²	XC7K160T-1FBG676C	XC7K325T-2FFG676I	XC7K410T-2FFG676I	XC7K160T-1FBG676C	XC7K160T-2FFG676I	XC7K325T-2FFG676I	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	162'240	326'080	406'720	162'240		326'080	406'720
PL Block RAM (kbit)	11'700	16'020	28'620	11'700	11'700	16'020	28'620
PL DSP Systolic FIR (MMAC/s)	656	1'092	2'002	656	780	1'092	2'002
PL MGT Transceivers @ Gbps ⁶	4 @ 6.6	4 @ 10.3125		8 @ 6.6	8 @ 10.3125		
PL Peripherals	PCIe® Gen2 x4			PCIe® Gen2 x8			
PL Ethernet USB ⁵	2 x 1 Gbps Cypress FX3™ USB 3.0			2 x 1 Gbps FTDI USB 2.0			
PL SDRAM Size (MByte)	1,024 + 256	2,048 + 512		2'048			
PL SDRAM Type Bandwidth (MByte/s)	DDR3L 4,000	DDR3L 8,000		DDR3L 6,400	DDR3L 12,800		
Flash Memory	64M QSPI			64M QSPI			
Connector Pins IO Pins	334 178			504 256			
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	158 - - -			216 - - -			
Module Dimensions (mm)	72 x 54			74 x 54			
Temperature Range ²	0..+70°C	-40..+85°C		0..+70°C	-40..+85°C		
Boot Modes	Slave Serial QSPI USB3			Slave Serial QSPI USB2			
Product Status	Mass Production			Mass Production			
Estimated Product Lifetime ³	2030+			2030+			
Preferred Configuration MOQ ⁴	Yes	Yes	No 20	No 40	Yes	No 20	No 20
Module Order Code	ME-KX1-160-1C-D10	ME-KX1-325-2I-D11-P	ME-KX1-410-2I-D11-P	ME-KX2-160-1C-D10	ME-KX2-160-2I-D11-P	ME-KX2-325-2I-D11-P	ME-KX2-410-2I-D11-P
Budgetary Price 1+ (USD)	630	1333	1764	737	698	1438	1834
Budgetary Price 30+ (USD)	575	1214	1606	600	629	1233	1597
Budgetary Price 100+ (USD)	524	1109	1470	515	568	1094	1431
Budgetary Price 1000+ (USD)	360	782	1218	340	417	755	1173
Budgetary Price 10000+ (USD)	271	596	934	252	329	571	896

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Valid as of 9 th September 2018	Mercury+™ XU1			Mercury+™ XU2		
FPGA Family	Zynq® UltraScale+™			Zynq® UltraScale+™		
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-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 3.1 EMAC CAN			DisplayPort PCIe® Gen2 x4 SATA EMAC CAN	Mali™ DisplayPort PCIe® Gen2 x4 SATA 3.1 EMAC 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	
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 (MMAC/s)	2'545	3'906	5'468	939	1'362	2'678
PL MGT Transceivers @ Gbps ⁶	12 @ 12.5	12 @ 15		12 @ 12.5		12 @ 15
PL Peripherals	-			2 x PCIe® Gen3 x8	H.265 Codec 2 x PCIe® Gen3 x8	
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	52 148 - 14			52 148 - 14		
Module Dimensions (mm)	74 x 54			74 x 54		
Temperature Range ²	-40..+85°C			-40..+85°C		
Boot Modes	QSPI SD Card eMMC			QSPI SD Card eMMC		
Product Status	Mass Production			Advance*1		
Estimated Product Lifetime ³	2030+			TBD		
Preferred Configuration MOQ ⁴	Yes	No 20	Yes	TBD		
Module Order Code	ME-XU1-6EG-1I-D11E	ME-XU1-9EG-2I-D12E	ME-XU1-15EG-2I-D12E	ME-XU2-4CG-1E-D11E	ME-XU2-5EV-1I-D12E	ME-XU2-7EV-2I-D12E
Budgetary Price 1+ (USD)	1090	1769	1932	603	1055	1429
Budgetary Price 30+ (USD)	1002	1542	1776	554	970	1313
Budgetary Price 100+ (USD)	925	1382	1642	510	895	1213
Budgetary Price 1000+ (USD)	799	1183	1437	430	772	1056
Budgetary Price 10000+ (USD)	656	982	1196	357	636	875

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FPGA Family	Kintex® UltraScale+™		Zynq® UltraScale+™				
FPGA Device Name	KU3P	KU11P	ZU2EG	ZU3EG	ZU4EV	ZU5EV	ZU5EV
FPGA Speed Grade ²	1	2	1	2	1	2	3
FPGA Part Number ²	XCKU3P-1FBVD900E	XCKU11P-2FFVD900I	XCZU2EG-1SFVC784I	XCZU3EG-2SFVC784I	XCZU4EV-1SFVC784I	XCZU5EV-2SFVC784I	XCZU5EV-3SFVC784E
CPU Cores	-		4 x ARM® Cortex™-A53 2 x Cortex™-R5				
CPU Frequency @ MHz	-		1,200 500	1,333 533	1,200 500	1,333 533	1,500 600
PS Peripherals	-		Mali™ DisplayPort PCIe® Gen2 x4 SATA 3.1 EMAC CAN				
PS Ethernet USB	-		1 Gbps 2 x USB 3.0				
PS SDRAM Size (MByte)	-		2,048 + ECC		4,096 + ECC		8,192 + ECC
PS SDRAM Type Bandwidth (MByte/s)	-		DDR4 19,200				
PL System Logic Cells	356'000	653'000	103'320	154'350	192'150	256'200	
PL Block RAM (kbit)	25'920	43'560	5'400	7'776	18'432	23'616	
PL DSP Systolic FIR (MMAC/s)	1'765	4'538	310	558	939	1'637	1'882
PL MGT Transceivers @ Gbps ⁶	16 @ 12.5	16 @ 15	-		4 @ 12.5		
PL Peripherals	PCIe® Gen3 x16	4 x PCIe® Gen3 x16 2 x 150G 100G	-		H.265 Codec PCIe® Gen3 x4		
PL Ethernet USB ⁵	1 Gbps FTDI USB 2.0		1 Gbps				
PL SDRAM Size (MByte)	2,048	4,096	512		1,024	2,048	
PL SDRAM Type Bandwidth (MByte/s)	DDR4 9,600	DDR4 19,200	DDR4 4,266	DDR4 4,800	DDR4 4,266	DDR4 4,800	
Flash Memory	64M QSPI		64M QSPI 16G eMMC				
Connector Pins IO Pins	504 246	504 294	336 178				
PL 3.3V PL 1.8V PL 1.2V Pins PS Pins	66 100 - -	66 148 - -	52 92 - 14		52 72 - 14		
Module Dimensions (mm)	74 x 54		56 x 54				
Temperature Range ²	0..+85°C	-40..+85°C	-40..+85°C				0..+85°C
Boot Modes	Slave Serial QSPI USB2		QSPI SD Card eMMC				
Product Status	Advance*1		Mass Production				
Estimated Product Lifetime ³	TBD		2030+				
Preferred Configuration MOQ ⁴	TBD		Yes	No 40	Yes	Yes	No 20
Module Order Code	ME-XK1-3P-1E-D11	ME-XK1-11P-2I-D12	ME-XU5-2EG-1I-D11E	ME-XU5-3EG-2I-D11E	ME-XU5-4EV-1I-D11E	ME-XU5-5EV-2I-D12E	ME-XU5-5EV-3E-D13E
Budgetary Price 1+ (USD)	TBD	TBD	383	615	653	945	1279
Budgetary Price 30+ (USD)	TBD	TBD	351	555	599	868	1165
Budgetary Price 100+ (USD)	TBD	TBD	322	501	552	801	1067
Budgetary Price 1000+ (USD)	TBD	TBD	281	430	485	707	934
Budgetary Price 10000+ (USD)	TBD	TBD	223	335	402	570	791

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FPGA Family	Zynq® UltraScale+™			Zynq® UltraScale+™		
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-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 3.1 EMAC CAN			DP PCIe® Gen2 x4 SATA EMAC CAN	Mali™ DisplayPort PCIe® Gen2 x4 SATA 3.1 EMAC 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	
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 (MMAC/s)	2'545	3'906	5'468	939	1'362	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	
PL SDRAM Type Bandwidth (MByte/s)	DDR4 9,600	DDR4 10,664		DDR4 9,600		DDR4 10,664
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	
Boot Modes	QSPI SD Card eMMC			QSPI SD Card eMMC		
Product Status	Sampling			Sampling		
Estimated Product Lifetime ³	2030+			2030+		
Preferred Configuration MOQ ⁴	Yes	No 20	Yes	Yes	No 20	Yes
Module Order Code	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-2I-D12E
Budgetary Price 1+ (USD)	1147	1800	2002	660	1125	1499
Budgetary Price 30+ (USD)	1043	1570	1830	595	1023	1367
Budgetary Price 100+ (USD)	952	1408	1680	538	934	1252
Budgetary Price 1000+ (USD)	813	1207	1461	443	796	1079
Budgetary Price 10000+ (USD)	668	1003	1218	370	658	896

*** Notes**

1. We are actively looking for customers interested 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 licence options.
4. For non-preferred configurations, the minimum order quantity (MOQ) only applies if the modules are not in stock – please get in touch for more details.
5. Our FPGA Manager™ IP Solution offers simple data streaming to/from Windows/Linux/Embedded Linux hosts.
6. Adequate signal integrity over the full signal path must be ensured when using MGTs at high performance rates

General notes

- Not all features are available simultaneously – please check the documentation for any applicable constraints.
- All specifications and release dates are subject to change without notice. Please verify component specifications with vendor's datasheets.
- Enclustra maintains an errata and revision history document for each product. Please also check the errata of the FPGA device and other components.
- All prices are non-binding estimates – please contact us for definitive pricing and lead-time information.
- Pricing during sampling starts significantly higher and decreases with time. Budgetary pricing typically starts 12 months after production FPGAs are available.
- All trademarks are the property of their respective owners. All prices do not include shipping, taxes and duties.

Valid as of 9 th September 2018	Mercury™ ZX1			Mercury™ ZX5		
FPGA Family	Zynq®-7000			Zynq®-7000		
FPGA Device Name	Z-7030	Z-7035	Z-7045	Z-7015	Z-7030	
FPGA Speed Grade*2	2	1	2	2	1	3
FPGA Part Number*2	XC7Z030-2FBG676I	XC7Z035-1FBG676I	XC7Z045-2FFG676I	XC7Z015-2CLG485I	XC7Z030-1SBG485I	XC7Z030-3SBG485E
CPU Cores	2 x ARM® Cortex™-A9			2 x ARM® Cortex™-A9		
CPU Frequency @ MHz	800	667	800	766	667	1'000
PS Cores & Peripherals	2 x CAN			2 x CAN		
PS Ethernet USB	1 Gbps USB 2.0 OTG			1 Gbps USB 2.0 OTG		
PS SDRAM Size (MByte)	1,024			1,024		
PS SDRAM Type Bandwidth (MByte/s)	DDR3L 4,264			DDR3L 4,264		DDR3L 5,333
PL System Logic Elements	125'000	275'000	350'000	73'920	125'000	
PL Block RAM (kbit)	9'540	18'000	19'620	3'420	9'540	
PL DSP Systolic FIR (MMAC/s)	520	981	1'170	176	438	593
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		
Connector Pins IO Pins	334 170	334 178		334 178		
PL 3.3V PL 1.8V Pins PS Pins	66 84 - 12	66 72 - 12		146 - - 12	54 92 - 12	
Module Dimensions (mm)	64 x 54			56 x 54		
Temperature Range*2	-40..+85°C			-40..+85°C		0..+70°C
Boot Modes	QSPI SD Card NAND			QSPI SD Card NAND		
Product Status	Mass Production			Mass Production		
Estimated Product Lifetime*3	2030+			2030+		
Preferred Configuration MOQ*4	Yes	Yes	Yes	Yes	Yes	No 40
Module Order Code	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
Budgetary Price 1+ (USD)	515	906	1200	336	396	570
Budgetary Price 30+ (USD)	462	822	1092	320	371	520
Budgetary Price 100+ (USD)	415	698	948	305	347	477
Budgetary Price 1000+ (USD)	335	546	732	241	290	341
Budgetary Price 10000+ (USD)	251	387	554	184	216	237

*** Notes**

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