

NXP Kinetis MCUs

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NXP MCU / MPU / DSP

FREEDOM DEVELOPMENT PLATFORM

MOUSER STOCK NO.	NXP Part No.	Description	Price Each
841-FRDM-FXS-MULTI	FRDM-FXS-MULTI	12-Axis, 3.7V Expansion Board for Multiple Xtrinsic Sensors	53.13
841-FRDM-FXS-MULTI-B	FRDM-FXS-MULTI-B	12-Axis, 3.7V Expansion Board for Multiple Xtrinsic Sensors with Bluetooth	132.81
841-FRDM-K22F	FRDM-K22F	Kinetis K22 Series ARM Cortex M4 Development Board	29.00
841-FRDM-K64F	FRDM-K64F	Kinetis K64 Series ARM Cortex M4 Development Board	35.00
841-FRDM-KE02Z40M	FRDM-KE02Z40M	Kinetis KE02 Series ARM Cortex M0+ Development Board, 40MHz	15.00
841-FRDM-KE04Z	FRDM-KE04Z	Kinetis KE04 Series ARM Cortex M0+ Development Board	15.00
841-FRDM-KE06Z	FRDM-KE06Z	Kinetis KE06 Series ARM Cortex M0+ Development Board	15.00
841-FRDM-KL03Z	FRDM-KL03Z	Kinetis KL03 Series ARM Cortex M0+ Development Board	20.00
841-FRDM-KL02Z	FRDM-KL02Z	Kinetis KL0 Series KL02 ARM Cortex M0+ Development Board	15.00
841-FRDM-KL05Z	FRDM-KL05Z	Kinetis KL0 Series KL05 ARM Cortex M0+ Development Board	15.00
841-FREEDOM-KL25Z	FRDM-KL25Z	Kinetis KL2 Series KL25 ARM Cortex M0+ Development Board	15.00
841-FRDM-KL26Z	FRDM-KL26Z	Kinetis KL2 Series KL26 ARM Cortex M0+ Development Board	20.00
841-FRDM-KL43Z	FRDM-KL43Z	Kinetis KL17/27/33/43 Series ARM Cortex M0+ Development Board	20.00
841-FRDM-KL46Z	FRDM-KL46Z	Kinetis KL4 Series KL46 ARM Cortex M0+ Development Board	20.00

KINETIS E SERIES ARM CORTEX-M0+ MICROCONTROLLERS

Kinetis KE02 - Entry-Level MCUs

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
									1	25	100
841-MKE02Z16VLC2	MKE02Z16VLC2	LQFP-32	20	16	4	12/16	-	57	1.25	1.11	.828
841-MKE02Z16VLD2	MKE02Z16VLD2	LQFP-44	20	16	4	12/16	-	57	1.39	1.24	.924
841-MKE02Z32VLC2	MKE02Z32VLC2	LQFP-32	20	32	4	12/16	-	57	1.73	1.54	1.16
841-MKE02Z32VLD2	MKE02Z32VLD2	LQFP-44	20	32	4	12/16	-	57	1.91	1.70	1.28
841-MKE02Z32VQH2	MKE02Z32VQH2	QFP-64	20	32	4	12/16	-	57	2.16	1.92	1.44
841-MKE02Z64VLC2	MKE02Z64VLC2	LQFP-32	20	64	4	12/16	-	57	1.95	1.73	1.30
841-MKE02Z64VLD2	MKE02Z64VLD2	LQFP-44	20	64	4	12/16	-	57	2.15	1.91	1.43
841-MKE02Z64VQH2	MKE02Z64VQH2	QFP-64	20	64	4	12/16	-	57	2.25	2.00	1.50
841-MKE02Z64VLC4	MKE02Z64VLC4	LQFP-32	40	64	4	12/16	6	57	1.95	1.73	1.30
841-MKE02Z64VLD4	MKE02Z64VLD4	LQFP-44	40	64	4	12/16	6	57	2.15	1.91	1.43
841-MKE02Z64VLH4	MKE02Z64VLH4	LQFP-64	40	64	4	12/16	6	57	2.22	1.97	1.48
841-MKE02Z64VQH4	MKE02Z64VQH4	QFP-64	40	64	4	12/16	6	57	2.25	2.00	1.50

Kinetis KE04 - Sub-Family MCUs

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
841-MKE04Z8VFK4	MKE04Z8VFK4	QFN-24	48	8	1	12/12	6	22	.95	.848	.636
841-MKE04Z8VVG4	MKE04Z8VVG4	TSSOP-16	48	8	1	12/12	6	22	.75	.672	.504
841-MKE04Z8VWJ4	MKE04Z8VWJ4	SOIC-20	48	8	1	12/12	6	18	.91	.816	.612

Kinetis KE06 - Sub-Family MCUs

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
841-MKE06Z128VLD4	MKE06Z128VLD4	LQFP-44	48	128	16	12/16	6	38	3.30	2.93	2.20
841-MKE06Z128VLH4	MKE06Z128VLH4	LQFP-64	48	128	16	12/16	6	58	3.37	3.00	2.25
841-MKE06Z128VLK4	MKE06Z128VLK4	LQFP-80	48	128	16	12/16	6	71	3.59	3.19	2.39
841-MKE06Z128VQH4	MKE06Z128VQH4	QFP-64	48	128	16	12/16	6	58	3.39	3.01	2.26

KINETIS KEA SERIES ARM CORTEX-M0+ MICROCONTROLLERS FOR AUTOMOTIVE

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
841-S9KEAZN8AMFK	S9KEAZN8AMFK	QFN-24	48	8	1	12/12	6	22	1.35	1.20	.90
841-S9KEAZN8AMTG	S9KEAZN8AMTG	TSSOP-16	48	8	1	12/12	6	22	1.16	1.03	.768
841-S9KEAZN64AMLC	S9KEAZN64AMLC	LQFP-32	40	64	4	12/16	6	28	2.11	1.88	1.41
841-S9KEAZN64AMLH	S9KEAZN64AMLH	LQFP-64	40	64	4	12/16	6	57	2.42	2.15	1.61
841-S9KEAZ128AMLH	S9KEAZ128AMLH	LQFP-64	48	128	16	12/16	6	58	3.60	3.20	2.40
841-S9KEAZ128AMLK	S9KEAZ128AMLK	LQFP-80	48	128	16	12/16	6	71	3.82	3.40	2.55

KINETIS K02 SERIES ARM CORTEX-M4 FPU MICROCONTROLLERS

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
841-MK02FN128VFM10	MK02FN128VFM10	QFN-32	100	128	16	16	12	26	2.72	2.42	1.82
841-MK02FN128VLH10	MK02FN128VLH10	LQFP-64	100	128	16	16	12	46	3.14	2.79	2.09
841-MK02FN64VFM10	MK02FN64VFM10	QFN-32	100	64	16	16	12	26	2.11	1.88	1.41
841-MK02FN64VLH10	MK02FN64VLH10	LQFP-64	100	64	16	16	12	46	2.70	2.40	1.80

KINETIS K SERIES ARM CORTEX-M4 MICROCONTROLLERS

Kinetis K10 - Baseline MCUs

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
841-MK10DN32VFM5	MK10DN32VFM5	QFN-32	50	32	8	16/1	-	24	2.72	2.42	1.82
841-MK10DN32VLF5	MK10DN32VLF5	LQFP-48	50	32	8	16/4	-	33	2.92	2.60	1.95
841-MK10DX128VFM5	MK10DX128VFM5	LQFN-32	50	128	16	16/1	-	33	3.91	3.48	2.61
841-MK10DX128VLF5	MK10DX128VLF5	LQFP-48	50	128	16	16/1	-	33	4.11	3.65	2.74
841-MK10DX128VLH5	MK10DX128VLH5	LQFP-64	50	128	16	16/1	-	44	4.34	3.86	2.90
841-MK10DX64VLH7	MK10DX64VLH7	LQFP-48	72	64	16	16/1	12	44	4.61	4.10	3.08
841-MK10DX128VLH7	MK10DX128VLH7	LQFP-64	72	128	16	16/1	12	44	5.53	4.92	3.69
841-MK10DX256VLL7	MK10DX256VLL7	LQFP-100	72	256	64	16/2	12	70	7.01	6.23	4.67
841-MK10DX256VLK7	MK10DX256VLK7	LQFP-80	72	256	64	16/2	12	56	6.90	6.13	4.60
841-MK10DX256VLH7	MK10DX256VLH7	LQFP-64	72	256	64	16/2	12	44	6.47	5.75	4.31
841-MK10DN512ZVMD10	MK10DN512ZVMD10	MAPBGA-144	100	512	128	16/1	-	104	12.33	10.96	8.22
841-MK10DN512VLK10	MK10DN512VLK10	LQFP-80	100	512	128	16/2	12	56	9.00	8.00	6.00

Kinetis K20 - USB MCUs

MOUSER STOCK NO.	NXP Part No.	Package	Core Operating Freq. Max (MHz)	Internal Flash (KB)	Internal RAM (KB)	A/D Converter (bits/channels)	D/A Converter (bits)	I/O Pins	Price Each		
841-MK20DX128VFM5	MK20DX128VFM5	QFN-32	50	128	16	16/1	-	20	4.52	4.02	3.02
841-MK20DX128VFT5	MK20DX128VFT5	QFN-48	50	128	16	16/1	-	29	4.77	4.24	3.18
841-MK20DX128VLF5	MK20DX128VLF5	LQFP-48	50	128	16	16/1	-	29	4.67	4.15	3.11
841-MK20DX128VLH5	MK20DX128VLH5	LQFP-64	50	128	16	16/1	-	40	4.92	4.37	3.28
841-MK20DX128VLL7	MK20DX128VLL7	LQFP-100	72	128	32	16/1	12	66	6.75	6.00	4.50
841-MK20DX256VLL7	MK20DX256VLL7	LQFP-100	72	256	64	16/48	12	68	7.67	6.82	5.12
841-MK20DX256VLH7	MK20DX256VLH7	LQFP-64	72	256	64	16/48	12	40	7.08	6.29	4.72
841-MK20DX256VLK10	MK20DX256VLK10	LQFP-80	100	256	128	16/2	12	52	7.56	6.72	5.04
841-MK20DN512VLK10	MK20DN512VLK10	LQFP-80	100	512	128	16/2	12	52	9.67	8.60	6.45
841-MK20DN512ZVLQ10	MK20DN512ZVLQ10	LQFP-144	100	512	128	16/44	12	100	12.99	11.55	8.66
841-MK20DX256ZVLK10	MK20DX256ZVLK10	LQFP-80	100	512	128	16/2	12	52	11.38	10.12	7.59
841-MK21DN512VMC5	MK21DN512VMC5	MAPBGA-121	50	512	64	16/1	12	64	8.77	7.80	5.85
841-MK21FX512VMC12	MK21FX512VMC12	BGA-121	120	512	64	16/2	12	81	10.78	9.59	7.19
841-MK21FN1M0VMD12	MK21FN1M0VMD12	BGA-144	120	1MB	128	16/2	12	104	12.64	11.24	8.43
841-MK22FX512VLQ12	MK22FX512VLQ12	LQFP-144	120	512	64	16/2	12	86	10.54	9.37	7.03
841-MK22FX512VLL12	MK22FX512VLL12	LQFP-100	120	512	64	16/2	12	66	9.79	8.70	6.53
841-MK22FX512VLH12	MK22FX512VLH12	LQFP-64	120	512	64	16/2	12	40	9.28	8.25	6.19
841-MK22FX512VLK12	MK22FX512VLK12	LQFP-80	120	512	64	16/2	12	52	9.72	8.65	6.48
841-MK22FX512VMC12	MK22FX512VMC12	BGA-121	120	512	64	16/2	12	86	10.19	9.06	6.79
841-MK22FN1M0VLL12	MK22FN1M0VLL12	LQFP-100	120	1MB	128	16/2	12	66	11.16	9.92	7.44