

# FREESCALE Microprocessors

RoHS Compliant This product is RoHS compliant.



MCU / MPU / DSP

Freescale

## i.MX APPLICATIONS PROCESSORS

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Core Freq. (MHz)	Cache Size (bytes)	Internal RAM (kbytes)	Temp. Range (C)	Price Each			
								1	25	50	100
<b>i.MX233 Embedded Multimedia Applications Processors</b>											
841-MCIMX233CAG4C	MCIMX233CAG4B	LQFP 128	ARM 9	454	16	32	-40 to 85	10.42	9.15	7.89	6.95
<b>i.MX28 Industrial and Consumer Processors</b>											
841-MCIMX281AVM4B	MCIMX281AVM4B	MPABGA 289	ARM 9	454	32	128	-40 to +85	15.04	13.71	12.93	11.75
841-MCIMX283CVM4B	MCIMX283CVM4B	MPABGA 289	ARM 9	454	32	128	-40 to +85	11.88	9.54	9.26	8.99
841-MCIMX283DVM4B	MCIMX283DVM4B	MPABGA 289	ARM 9	454	32	128	-20 to +70	14.03	11.92	11.67	11.02
841-MCIMX285AVM4B	MCIMX285AVM4B	MPABGA 289	ARM 9	454	32	128	-40 to +85	18.23	16.69	16.36	16.02
841-MCIMX286CVM4B	MCIMX286CVM4B	MPABGA 289	ARM 9	454	32	128	-20 to +70	19.64	18.48	12.68	12.32
841-MCIMX287CVM4B	MCIMX287CVM4B	MPABGA 289	ARM 9	454	32	128	-40 to +85	17.27	15.87	14.26	14.17
<b>i.MX35 Consumer and Industrial Application Processors</b>											
841-MCIMX357CJQ5C	MCIMX357CJQ5C	MAPBGA 400	ARM 11	133	16	128	-40 to 85	14.80	13.48	11.97	10.65
841-MCIMX356AJQ5C	MCIMX356AJQ5C	MAPBGA 400	ARM 11	532	16	128	-40 to 85	23.23	21.85	20.23	16.86
<b>i.MX50 EPD Control Applications Processors</b>											
841-MCIMX507CVM8B	MCIMX507CVM8B	MAPBGA-400	Cortex-A8	800	256K	256K	0 to 70	20.94	17.78	15.05	12.32
841-MCIMX508CVM8B	MCIMX508CVM8B	MAPBGA-400	Cortex-A8	800	256K	256K	0 to 70	19.76	17.01	16.33	12.97

## i.MX51 Consumer and Industrial Multimedia Application Processors

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Core Freq. (MHz)	Cache (bytes)	L2 Cache (kbytes)	Internal RAM (kbytes)	Temp. Range (C)	Price Each			
									1	25	50	100
841-MCIMX512CJM6C	MCIMX512CJM6C	MABGAPGE 529	Cortex-A8	600	32	256	128	-40 to 85	32.78	29.87	26.45	23.60
841-MCIMX512DJM8C	MCIMX512DJM8C	MABGAPGE 529	Cortex-A8	800	32	256	128	-20 to 70	29.62	26.48	23.56	21.32
841-MCIMX513CJM6C	MCIMX513CJM6C	MABGAPGE 529	Cortex-A8	800	32	256	128	-40 to 85	40.61	39.25	37.90	36.70
841-MCIMX513DJM8C	MCIMX513DJM8C	MABGAPGE 529	Cortex-A8	800	32	256	128	-20 to 70	39.06	36.76	34.68	22.98
841-MCIMX515CJM6C	MCIMX515CJM6C	MAPBGA527	Cortex-A8	800	32	256	128	-40 to 85	48.85	45.98	44.60	28.73
841-MCIMX515DJM8C	MCIMX515DJM8C	MABGAPGE 529	Cortex-A8	800	32	256	128	-20 to 70	34.48	31.69	28.03	24.82

## i.MX53 Consumer and Industrial Multimedia Application Processors

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Core Freq. (MHz)	Cache (bytes)	L2 Cache (kbytes)	Internal RAM (kbytes)	Temp. Range (C)	Price Each			
									1	25	50	100
841-MCIMX534AVV8C	MCIMX534AVV8C	TEPBGA-2	ARM Cortex-A8	800	32	256	128	-40 to +85	33.50	28.93	24.49	20.05
841-MCIMX535DVV1C	MCIMX535DVV1C	TEPBGA-2	ARM Cortex-A8	1000	32	256	128	-20 to +70	32.30	27.91	23.62	19.34
841-MCIMX536AVV8C	MCIMX536AVV8C	TEPBGA-2	ARM Cortex-A8	800	32	256	128	-40 to +85	35.14	30.36	25.69	21.03
841-MCIMX537CVM8C	MCIMX537CVM8C	TEPBGA-2	ARM Cortex-A8	800	32	256	128	-40 to +85	36.18	31.26	26.46	21.66

## i.MX Power Management IC

MOUSER STOCK NO.	Freescale Part No.	Package	Compatible with	Input Voltage		Output Voltage Max. (V)	Output Current (mA)	Topology	Price Each			
				Min.	Max.				1	25	100	500
841-MC34708VK	MC34708VK	MAPBGA-206	i.MX50, i.MX53	4.5	4.50	1.28	-	Buck	6.35	5.47	4.26	4.26
841-MC13892CJVL	MC13892CJVL	BGA-186	i.MX35, i.MX51, i.MX27, i.MX31, i.MX37	3.0	4.65	1.25	30	Boost, Buck	5.08	4.38	4.20	3.40

## POWERQUICC COMMUNICATIONS PROCESSORS

### PowerQUICC Communications Processors - MPC8377E

MOUSER STOCK NO.	Freescale Part No.	Package	Core Type	Core Operating Freq. Max.	Cache (bytes)	External Memory Supported	Ethernet	USB	Bus Frequency max. (MHz)	Price Each		
										1	25	50
841-MPC8377EVRJF	MPC8377EVRJF	PBGA-PGE 689	e300	533	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	2.0	133	60.59	56.80	55.38
841-MPC8377EVRALG	MPC8377EVRALG	PBGA-PGE 689	e300	667	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	2.0	133	75.17	61.63	59.78
841-MPC8378EVRJF	MPC8378EVRJF	PBGA-PGE 689	e300	533	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	-	133	61.08	52.60	51.54
841-MPC8379EVRAGD	MPC8379EVRAGD	PBGA-PGE 689	e300	400	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	-	133	65.33	59.15	57.80

### PowerQUICC I

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Number of Cores	Core Operating Freq. (MHz)	Cache Size (bytes)	Bus Interface	I/O Operating Voltage Max. (V)	CPU Perform. (MIPS)	Price Each		
										1	25	50
841-MPC852TVR100A	MPC852TVR100A	PBGA 256	MPC8xx	1	100	8	PCMCIA, PowerPC ISA	3.3	132	22.82	19.65	18.87
841-MPC852TVR50A	MPC852TVR50A	PBGA 256	MPC8xx	1	50	8	PCMCIA, PowerPC ISA	3.3	-	16.62	15.02	12.84
841-MPC852TVR66A	MPC852TVR66A	PBGA 256	MPC8xx	1	66	8	PCMCIA, PowerPC ISA	3.3	87	18.78	16.97	14.52
841-MPC870CVR133	MPC870CVR133	PBGA 256	MPC8xx	1	133	8	PCMCIA	5	-	23.18	20.95	17.92
841-MPC885CVR133	MPC885CVR133	PBGA-FW 357	MPC8xx	1	133	8	PCMCIA	5	-	50.28	45.44	38.88
841-MPC885VR133	MPC885VR133	PBGA-FW 357	MPC8xx	1	133	8	PCMCIA	5	-	46.56	42.08	36.00

### PowerQUICC II

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Number of Cores	Core Operating Freq. (MHz)	Cache Size (bytes)	Bus Interface	I/O Operating Voltage Max. (V)	CPU Perform. (MIPS)	Price Each		
										1	25	50
841-MPC8270CVRMIBA	MPC8270CVRMIBA	FPBGA 516	603e	1	266	32	60x, Local, PCI	3.3	505.4	66.68	57.42	55.12
841-MPC8270CZQMIBA	MPC8270CZQMIBA	FPBGA 516	603e	1	266	32	60x, Local, PCI	3.3	505.4	66.68	57.42	55.12
841-MPC8270VRMIBA	MPC8270VRMIBA	FPBGA 516	603e	1	266	32	60x, Local, PCI	3.3	505.4	60.60	52.18	50.09

### PowerQUICC II Pro

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Number of Cores	Core Operating Freq. (MHz)	Cache Size (bytes)	Bus Interface	I/O Operating Voltage Max. (V)	CPU Perform. (MIPS)	Price Each		
										1	25	50
841-MPC8306CVMABDCA	MPC8306CVMABDCA	MAP-369	e300	1	133	16	Local	3.3	-	16.57	14.98	12.81
841-MPC8306CVMACDCA	MPC8306CVMACDCA	MAP-369	e300	1	200	16	Local	3.3	-	16.99	15.35	13.13
841-MPC8306SCVMABDCA	MPC8306SCVMABDCA	MAP-369	e300	1	133	16	Local	3.3	-	16.32	14.75	12.61
841-MPC8306SCVMACDCA	MPC8306SCVMACDCA	MAP-369	e300	1	200	16	Local	3.3	-	16.73	15.12	12.93
841-MPC8306SVMABDCA	MPC8306SVMABDCA	MAP-369	e300	1	133	16	Local	3.3	-	15.52	14.03	12.00
841-MPC8306SVMACDCA	MPC8306SVMACDCA	MAP-369	e300	1	200	16	Local	3.3	-	15.92	14.39	12.31
841-MPC8306SVMADDCA	MPC8306SVMADDCA	MAP-369	e300	1	266	16	Local	3.3	-	16.32	14.75	12.61
841-MPC8306VMBDCA	MPC8306VMBDCA	MAP-369	e300	1	133	16	Local	3.3	-	16.63	14.15	12.20
841-MPC8306VMACDCA	MPC8306VMACDCA	MAP-369	e300	1	200	16	Local	3.3	-	16.18	14.63	12.51
841-MPC8306VMADDCA	MPC8306VMADDCA	MAP-369	e300	1	266	16	Local	3.3	-	16.57	14.98	12.81
841-MPC8308VMAGD	MPC8308VMAGD	MAPBGA 473	e300	1	400	16	Local, PCI	3.6	-	16.99	15.35	13.13
841-MPC8308VMADD	MPC8308VMADD	MAPBGA 473	e300	1	400	16	Local, PCI	3.6	-	16.18	14.63	12.51
841-MPC8308VMADD	MPC8308VMADD	MAPBGA 473	e300	1	400	16	Local, PCI	3.6	-	16.99	15.35	13.13
841-MPC8314CVRAGDA	MPC8314CVRAGDA	PBGA 620	e300	1	400	16	Local, PCI, PCI-Express	3.6	-	36.42	31.36	30.11
841-MPC8343EVRAGDB	MPC8343EVRAGDB	PBGA-620	e300	1	400	64	Local PCI	1.32	760	61.60	55.68	47.75
841-MPC8321CVRADDCA	MPC8321CVRADDCA	PBGA-PGE 516	e300	1	266	32	Local, PCI	1.8, 3.3	-	25.47	21.93	21.05
841-MPC8321CZQAFDC	MPC8321CZQAFDC	PBGA-PGE 516	e300	1	333	32	Local, PCI	1.8, 3.3	-	28.02	24.13	23.16
841-MPC8321EVRAFDC	MPC8321EVRAFDC	PBGA-PGE 516	e300	1	333	32	Local, PCI	1.8, 3.3	-	26.81	23.08	22.16
841-MPC8321VRAFDCA	MPC8321VRAFDCA	PBGA-PGE 516	e300	1	333	32	Local, PCI	1.8, 3.3	-	24.37	20.99	20.15

### PowerQUICC III

MOUSER STOCK NO.	Freescale Part No.	Package Type	Core Type	Number of Cores	Operating Frequency Max. (MHz)	Cache Size (Kbyte)	L2 Cache (Kbyte)	Bus Interface	Ethernet	Price Each		
										1	25	50
841-MPC8544VTALF	MPC8544VTALF	FCPBGA 783	e500	1	667	32	256	Local, PCI	10/100/1000 BaseT	110.66	95.29	92.43
841-MPC8536AVTAVLA	MPC8536AVTAVLA	FCPBGA-783	e500	1	1500	32K	512K	PCI-Express	10/100/1000 Base T	148.71	-	-