

NXP SEMICONDUCTOR MCU / MPU

RoHS Compliant This product is RoHS compliant.



32-BIT ARM CORTEX (CONT.)

Cortex M0 (Cont.)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	NXP Part No.	Package Type	RAM (bytes)	Timers	PWMs	Serial Interface	ADCs	I/O Pins	Price Each		
									1	25	100
Flash 32KB											
771-LPC1224FBD482011	LPC1224FBD48/201	LQFP-48	4K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	39	3.70	2.97	2.70
771-LPC1224FBD482211	LPC1224FBD48/221	LQFP-48	4K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	39	4.00	3.21	2.92
771-LPC1224FBD642011	LPC1224FBD64/201	LQFP-64	4K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	55	4.00	3.21	2.92
771-LPC1224FBD642211	LPC1224FBD64/221	LQFP-64	4K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	55	4.29	3.45	3.14
771-LPC1102UK118	LPC1102UK,118	WLCSP	8K	2x32/2x16/WDT	----	UART, SPI	5-Ch 10-Bit	11	4.77	3.90	3.49
771-LPC1114FBD483011	LPC1114FBD48/301,1	LQFP-48	8K	2x32/2x16/WDT	----	UART, I2C, 2xSPI	8-Ch 10-Bit	42	3.08	2.47	2.25
771-LPC1114FBD483021	LPC1114FBD48/302,1	LQFP-48	8K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	42	3.08	2.48	2.25
771-LPC1114FHN33015	LPC1114FHN33/301,5	HVQFN-33	8K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	28	2.80	2.25	2.05
771-LPC1114FHN33025	LPC1114FHN33/302,5	HVQFN-33	8K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	42	2.80	2.25	2.05
771-LPC11C14FD48301	LPC11C14FBD48/301,1	LQFP-48	8K	2x32/2x16/WDT	----	CAN, UART, I2C, 2xSPI	8-Ch 10-Bit	40	7.92	6.13	5.14
771-LPC11C24FBD483011	LPC11C24FBD48/301,151	LQFP-48	8K	2x32/2x16/WDT	----	CAN, UART, I2C, 2xSPI	8-Ch 10-Bit	42	5.70	5.19	4.67
Flash 64KB											
771-LPC1225FBD483011	LPC1225FBD48/301	LQFP-48	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	39	4.52	3.63	3.30
771-LPC1225FBD483211	LPC1225FBD48/321	LQFP-48	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	39	5.23	4.20	3.82
771-LPC1225FBD643011	LPC1225FBD64/301	LQFP-64	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	55	4.82	3.77	3.52
771-LPC1225FBD643211	LPC1225FBD64/321	LQFP-64	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	55	5.52	4.44	4.04
Flash 96KB											
771-LPC1226FBD483011	LPC1226FBD48/301	LQFP-48	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	39	5.75	4.62	4.20
771-LPC1226FBD643011	LPC1226FBD64/301	LQFP-64	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	55	6.05	4.86	4.42
Flash 128KB											
771-LPC1227FBD483011	LPC1227FBD48/301	LQFP-48	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	39	6.98	5.61	5.11
771-LPC1227FBD643011	LPC1227FBD64/301	LQFP-64	8K	2x32/2x16/WDT/RTC	----	2xUART,I2C, SPI	8-Ch 10-Bit	55	6.50	5.33	4.81

Cortex M3



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	NXP Part No.	Package Type	RAM (bytes)	Timers	PWMs	Serial Interface	ADCs	I/O Pins	Price Each		
									1	25	100
Flash 16KB											
771-LPC1342FHN33551	LPC1342FHN33,551	HVQFN-33	4K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	28	4.17	3.35	3.05
Flash 32KB											
771-LPC1313FBD48,151	LPC1313FBD48,151	LQFP-48	8K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	42	3.50	2.81	2.56
771-LPC1342FBD48151	LPC1342FBD48,151	LQFP-48	8K	2x32/2x16/WDT	----	USB, I2C, UART, SPI, SSP	8-Ch 10-Bit	40	4.47	4.03	3.66
771-LPC1343FBD48151	LPC1343FBD48,151	HVQFN-33	8K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	40	6.30	5.06	4.61
771-LPC1343FHN33551	LPC1343FHN33,551	HVQFN-33	8K	2x32/2x16/WDT	----	UART, I2C, SPI	8-Ch 10-Bit	28	5.18	4.16	3.79
771-LPC1751FBD80551	LPC1751FBD80,551	LQFP-80	8K	2x32/2x16/WDT/RTC	6	USB, CAN, 4xUART, SPI	6-Ch 10-Bit	52	6.64	5.33	4.85
Flash 64KB											
771-LPC1752FBD80551	LPC1752FBD80,551	LQFP-80	16K	2x32/2x16/WDT/RTC	6	USB, CAN, 4xUART, SPI	6-Ch 10-Bit	52	7.10	5.82	5.25
Flash 128KB											
771-LPC1754FBD80551	LPC1754FBD80,551	LQFP-80	32K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, CAN, 4xUART, SPI	6-Ch 10-Bit	52	8.30	6.80	6.14
771-LPC1764FBD100551	LPC1764FBD100,551	LQFP-100	32K	2x32/2x16/WDT/RTC	6	USB, 2xCAN, 4xUART, SPI	8-Ch 10-Bit	70	9.48	7.76	7.01
Flash 256KB											
771-LPC1756FBD80551	LPC1756FBD80,551	LQFP-80	32K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 4xUART, SPI	6-Ch 10-Bit	52	9.75	7.99	7.21
771-LPC1765FBD100551	LPC1765FBD100,551	LQFP-100	64K	2x32/2x16/WDT/RTC	6	USB, USB OTG, 2xCAN, 4xUART, SPI	8-Ch 10-Bit	70	10.73	8.79	7.93
771-LPC1766FBD100551	LPC1766FBD100,551	LQFP-100	64K	2x32/2x16/WDT/RTC	6	USB, USB OTG, 2xCAN, 4xUART, SPI	8-Ch 10-Bit	70	11.25	9.22	8.32
Flash 512KB											
771-LPC1758FBD80551	LPC1758FBD80,551	LQFP-80	64K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 4xUART, SPI	6-Ch 10-Bit	52	12.23	10.02	9.04
771-LPC1759FBD80551	LPC1759FBD80,551	LQFP-80	64K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 4xUART, SPI	6-Ch 10-Bit	52	11.22	9.43	8.67
771-LPC1768FBD100551	LPC1768FBD100,551	LQFP-100	64K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 4xUART, SPI	8-Ch 10-Bit	70	11.44	9.62	8.84
771-LPC1768FET100551	LPC1768FET100,551	TFBGA-100	64K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 4xUART, SPI	8-Ch 10-Bit	70	10.40	9.62	8.84
771-LPC1769FBD100551	LPC1769FBD100,551	LQFP-100	64K	2x32/2x16/WDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 4xUART, SPI	8-Ch 10-Bit	70	12.08	10.15	9.33
771-LPC1778FBD208551	LPC1778FBD208,551	LQFP-208	96K	4x32/WWDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 5xUART, 3xI2C	8-Ch 12-Bit	165	10.47	9.42	8.35
771-LPC1778FET208551	LPC1778FET208,551	TFBGA-208	96K	4x32/WWDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 5xUART, 3xI2C	8-Ch 12-Bit	165	10.47	9.42	8.35
771-LPC1788FBD208551	LPC1788FBD208,551	LQFP-208	96K	4x32/WWDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 5xUART, 3xI2C	8-Ch 12-Bit	165	15.38	12.93	11.88
771-LPC1788FET208551	LPC1788FET208,551	TFBGA-208	96K	4x32/WWDT/RTC	6	USB, USB Host, USB OTG, 2xCAN, 5xUART, 3xI2C	8-Ch 12-Bit	165	15.38	12.93	11.88
RAM Only											
771-LPC1850FET256551	LPC1850FET256,551	LBGA-256	200K	4x32/WWDT/RTC	1	USB, USB Host, USB OTG, CAN, 4xUART, I2C, SPI	2x8-Ch 10-Bit	80	11.98	9.84	8.88

ENERGY METER IC

The EM773 is an ARM Cortex-M0 based, low-cost 32-bit energy metering IC, designed for 8/16-bit smart metering applications. The EM773 offers programmability and on-chip metrology functionality combined with a low power, simple instruction set and memory addressing with reduced code size compared to existing 8/16-bit architectures. The EM773 operates at CPU frequencies of up to 48 MHz. The peripheral complement of the EM773 includes up to 32 kB of flash memory, up to 8 kB of data memory, one Fast-mode Plus I2C-bus interface, one RS-485/EIA-485 UART, one SPI interface with SSP features, three general purpose counter/timers, up to 25 general purpose I/O pins, and a metrology engine for energy measurement.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	NXP Part No.	Package Type	RAM (bytes)	Timers	PWMs	Serial Interface	ADCs	I/O Pins	Price Each		
									1	25	100
771-EM773FHN33551	EM773FHN33,551	HVQFN-32	8K	2x32, 1x16	-	UART, I2C, SPI	2xCurr, Volt	25	4.50	4.05	3.69

MAXIMUM POWER POINT TRACKING (MPPT) IC

The MPT612, the first dedicated IC for performing the Maximum Power Point Tracking (MPPT) function, is designed for use in applications that use solar photovoltaic (PV) cells or in fuel cells. To simplify development and maximize system efficiency, the MPT612 is supported by a patent-pending MPPT algorithm, an application-specific software library and easy-to-use application programming interfaces (APIs). Dedicated hardware functions for PV panels, including voltage and current measurement and panel parameter configuration, simplify design and speed development. The MPT612 is based on a low-power ARM7TDMI-S RISC processor that operates at up to 70 MHz and can achieve system efficiency ratings up to 98%. It controls the external switching device through a signal derived from a patent-pending MPPT algorithm. The DC source can be connected to the IC through appropriate voltage and current sensors. The IC dynamically extracts the maximum power from the DC source, without user intervention. The IC can be configured for boundary conditions set in software. There are up to 15 kB of flash memory available for application software.

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MOUSER STOCK NO.	NXP Part No.	Package Type	RAM (bytes)	Timers	PWMs	Serial Interface	ADCs	I/O Pins	Price Each		
									1	25	100
771-MPT612FBD48151	MPT612FBD48,151	LQFP-48	----	1x32, 1x16, RTC	---	2xUART,2xI2C, SPI/SSP	8-Ch 10-Bit	28	7.98	7.78	6.98

80C51

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	NXP Part No.	Package Type	RAM (bytes)	Timers	PWMs	Serial Interface	ADCs	I/O Pins	Price Each		
									1	25	100
771-P89LPC912FDH-S	P89LPC912FDH-S	TSSOP-14	128	4x16	1-Ch 8-bit	SPI	2 Analog Comp.	12	1.13	.99	.90
771-LPC913FDH129	P89LPC913FDH,129	TSSOP-14	128	4x16	8-bit	SPI	2 Analog Comp.	12	1.37	1.23	1.02
Flash 2KB											
771-P89LPC915FDH12	P89LPC915FDH,129	TSSOP-14	256	2x16	---	UART; I2C; SPI	4-Ch 8-bit	14	2.76	2.13	1.79
771-P89LPC9201FDH112	P89LPC9201FDH,112	TSSOP-20	256	2x16	---	UART; I2C	4-Ch 8-bit	18	1.34	1.30	1.23
771-P89LPC920FDH-S	P89LPC920FDH,529	TSSOP-20	256	2x16	---	UART; I2C	2 Analog Comp.	18	2.00	1.60	1.20
771-P89LPC920FDH129	P89LPC920FDH,129	TSSOP-20	256	5x16, 1x23, RTC	---	UART; I2C; SPI	---	18	2.64	2.04	1.71