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To provide a stable supply of MCUs, NXP's Longevity products are available for a minimum of ten years after product launch.

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### NXP Semiconductors LPC4300 Cortex™-M4 / M0 Dual-Core MCUs

NXP Semiconductors LPC4300 series microcontrollers (MCUs) boast the world's first asymmetrical dual-core digital signal controller architecture, featuring ARM® Cortex™-M4 and Cortex-M0 processors. These NXP Cortex-M4 MCUs with Cortex-M0 co-processors bring the advantage of developing digital signal processor (DSP) and MCU applications within a single architecture and development environment.

The LPC4300 series Cortex-M4 processor combines the benefits of an MCU with high-performance digital signal processing features such as single-cycle MAC, Single Instruction Multiple Data (SIMD) techniques, saturating arithmetic, and a floating point unit. The Cortex-M0 co-processor off-loads many of the data movement and I/O handling duties that can drain the bandwidth of the Cortex-M4 core. With its dual-core architecture and unique set of configurable peripherals, NXP Semiconductors LPC4300 MCUs enable development of a wide range of applications, such as motor control, power management, industrial automation, robotics, medical, automotive accessories, and embedded audio.

#### Also available! View the Embedded Artists LPC4088/4357 Development Boards

#### Features Applications 204 MHz, 32-bit ARM Cortex-M4 Motor control 204 MHz, 32-bit ARM Cortex-M0 asymmetrical coprocessor Power management Up to 1MB Flash Industrial automation Up to 282kB SRAM Robotics . Two High-speed USB 2.0 interfaces Medical On-chip High-speed PHY Automotive accessories LCD Interface Embedded audio Ethernet MAC Unique Quad-SPI Flash Interface Unique State Configurable Timer Subsystem Unique Serial GPIO Up to 146 GPIO Pin-compatible with the LPC1800 series 8-channel GPDMA controller

Two 8-channel, 400 Ksps 10-bit ADCs and one 10-bit DAC Motor Control PWM and Quadrature Encoder Interface Four UARTs, smart card interface Two Fast-mode I<sup>2</sup>C, two I<sup>2</sup>S, three SSP/SPI Temperature range: -40 to +85°C

### NXP Hitex LPC4350 Evaluation Board

The NXP Hitex LPC4350 Evaluation Board has a variety of special features showcasing the highperformance DSC capability of LPC4350 MCUs. The LPC4350 Evaluation Board is USB-powered but can also be driven by external power supply or via power-over-Ethernet. It is equipped with 65MB SDRAM, 32MB parallel flash, 512kB SRAM, and a serial EEPROM. The board features a small onboard display and NXP standard display as well as Audio IN an OUT, microphone IN, headphones OUT, and a D-Class amplifier.



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AN10778: PCB layout guidelines for NXP MCUs

LPC4300 Brochure

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ARM Cortex™-4

LPC4370 ARM

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LPC4300 Block Diagram



Part Number	Flash (KB)	RAM (KB)	LCD	Ethernet	USB	Max Frequency (MHz)	External Bus Interface	Package
LPC4330	-	264	-	Yes	2	204	16-32	BGA256, BGA180, LQFP144, BGA100
LPC4350	_	264	Yes	Yes	2	204	16-32	BGA256, LQFP208, BGA180
LPC4310	_	168	_	_	_	204	8-16	LQFP144, TBGA100
LPC4312	512	104	_	_	_	204	8-16	LQFP144, TBGA100
LPC4313	256x2	104	_	_	_	204	8-16	LQFP144, TBGA100
LPC4315	768	136	_	_	_	204	8-16	LQFP144, TBGA100
LPC4317	1024	136	_	_		204	8-16	LQFP144, TBGA100
LPC4320	-	200	-	-	1	204	8-16	LQFP144, TBGA100, LQFP100
LPC4322	512	104	_	_	1	204	8-16	LQFP144, TBGA100
LPC4323	256x2	104	_	_	1	204	8-16	LQFP144, TBGA100
LPC4325	768	136	_	_	1	204	8-16	LQFP144, TBGA100
LPC4327	1024	136	-	_	1	204	8-16	LQFP144, TBGA100, LQFP100
LPC4333	512	264	-	Yes	2	204	16-32	BGA256, BGA180, LQFP144, BGA100
LPC4337	1024	136	-	Yes	2	204	16-32	BGA256, BGA180, LQFP144, BGA100
LPC4353	512	136	Yes	Yes	2	204	16-32	LQFP208, BGA256, BGA180
LPC4357	1024 (2x512)	136	Yes	Yes	2	204	16-32	LQFP208, BGA256, BGA180
LPC4370		282	Yes	Yes	2	204	16-32	LBGA256, TFBGA100

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