

Macro News for Micros

Product Line: Microcontrollers

Q4 '09 Marketing Communications

Volume 1, Issue 4

Q4 '09 Newsletter Overview

In this quarter's newsletter, check out the [Hot News](#) section for an update on the successful MCU campaign, our upcoming ARM 9 push scheduled for mid-November, as well as the latest news surrounding the new NXP branded tools.

We've got a number of new [product updates](#) and have also added some new videos to the [LPCZone](#) You Tube site.

Finally, make sure you download the new [MCU Linecard](#) released this September and find out about the recently attended tradeshow occurring around the world.

Let's keep the great momentum going for the rest of the year!

Kind Regards,

Jennifer Zhao
Director of Marketing

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*Check out the new mbed
videos on [LPCZone](#)
[YouTube Channel](#)*

HOT News

MCU Campaign Update

The MCU Campaign will be coming to a close. Since its launch in April, we've received **over 2,000 requests for samples**, the most successful marketing campaign ever done by NXP to date. We will no longer be offering samples through the MCU campaign site, however, samples can be ordered through your local NXP representative.

The final part of the MCU campaign will be the ARM 9 push. This part of the campaign will cover our complete ARM 9 portfolio. The ARM 9 push will consist of a new ARM 9 portfolio brochure, a new ARM 9 microsite on the campaign website as well as a new site on the [microcontrollers Standards|Cs.com site](#). We'll be hosting an ARM 9 webinar with Tech Online on December 1st at 11am EST. Participants in the ARM 9 webinar will qualify to receive a **FREE** ARM9 development tool. The launch date for the ARM 9 push will be in mid-November. For questions or more details on the ARM 9 push, please contact your local NXP representative.

New NXP tools!

NXP is proud to announce two new tools created in conjunction with some of our tool partners; the recently announced [mbed rapid prototyping tool](#) and the soon to be announced [LPCXpresso](#), a new low cost development toolchain. The mbed tool was launched with great success at ESC Boston, while the LPCXpresso will be launched officially in mid-November. Stay tuned for more updates on mbed as well as the upcoming news on LPCXpresso.

Press Announcements

Press Releases :

- LPC1300 media alert
- LPC97x/LPC98x (China only): http://www.cn.nxp.com/news/content/file_1614.html
- mbed announcement with ARM: <http://www.arm.com/news/25871.html>
- NXP MCU topic coverage in CEN (Chinese pub) on June 23
- DigiKey Stocking of LPC1300: <http://dkc1.digikey.com/us/en/mkt/Press/PressReleases.html>

PR Coverage:

- Elektra Awards – LPC1100 on shortlist for Semiconductor Product of the Year (Digital) <http://www.elektraawards.co.uk/elektraawards2009/3938>
- Low Power Design Article for EE Catalog (Rob Cosaro): <http://eecatalog.com/lps/2009/09/16/low-power-design-driven-by-need-for-non-intrusive-applications/>
- Mbed coverage
 - Elektor: <http://www.elektor.com/news/mbed-sense-simplicity.1040956.lynkx>
 - EE Times EU: <http://eetimes.eu/uk/220100289>
 - ElectronicsWeekly UK: <http://www.electronicweekly.com/Articles/2009/09/21/47001/arm-uses-web-to-address-cortex-m3-design.htm>
 - Circuit Cellar: Easy (E)mbed: <http://www.standardics.nxp.com/support/documents/microcontrollers/pdf/article.mbed.circuit.cellar.pdf>
- EEPW Award of "The Best 32-bit MCU" (LPC1768): <http://www.eepw.com.cn/event/action/embedded2009/>
- Circuit Cellar:
 - The ARM Saga Continues (Oct. 2009 issue) – <http://www.circuitcellar.com/magazine/>

"With its low cost and low power 16-bit footprint, the LPC1300 offers design engineers a variety of new uses for 32-bit microcontrollers in their applications..."
 – Geoff Lees

Product Updates

Below is a summary of the products updates and availability. Click on the product number in the summary table for more detailed information. Click on "[Back to Product Updates](#)" link to return to the summary table.

Product Number	Product Status	Datasheet	Sample Availability	Tools
LPC91x1	Production in Dec.	Available in Dec.	Available in Dec.	
LPC9361	In Production	Available on web	Available in October.	
LPC97x	Production end of Oct	Available end of Oct.	Available end of Oct.	
LPC98x	LPC980 & LPC982 production end Oct. LPC983 & LPC985 production in Nov.	Available upon request. Contact your local account manager	LPC980 and LPC982 available end of Oct. LPC983 and LPC985 available in Nov.	
LPC111x	Production 1Q 2010	Contact your local account manager	Available Nov. Contact your local account manager	Available in 1Q 2010
LPC131x	In Production	Available on web	Available	Keil MCB1000 and Hitex LPC1313 stick available. (For more info click on: Development Boards)
LPC134x	Production in Nov	Available on web	Contact your local account manager	Keil MCB1000 and Hitex LPC1343 available. LPCXpresso boards available end of Nov. (For more info: Development Boards)
LPC1700 LPC2103	In Production	Available on web	LPC1759/69 samples available end of 2009	Keil LPC1758 and IAR LPC1768 boards available. mbed LPC1768 boards available end of October. (For more info: Development Boards).
<i>New 6x6mm HVQFN Package</i>	In Production	Available on web	Available	Available
LPC2300	In Production	Available on web	Available	Available
LPC2400	In Production	Datasheet Available on web Updated Errata sheet available on web .	Available	Available
LH7/LH7A (Bluestreak)	In Production	LH7 and LH7A available on web	Available	LH7A404 Zoom kit available. QVGA Display kit available end of Oct (For more info: Development Boards)
LPC2900	In Production	Available on web	Available	Keil MCB2900 available on Keil website.

LPC313x/314x/315x	LPC313x in production LPC314x/5x production in Oct.	Available on web	Available	EA LPC313x with Ethernet and LPC314x boards available. (For more info click on: Development Boards)
LPC32x0	In Production	Available on web	See Product update	Phytec LPC3250 and EA LPC3250 Rev A boards available. (For more info click on: Development Boards).

LPC91x1 – UPDATE

The LPC91x1 products are an improved version of our existing LPC91x 8-bit microcontrollers. They enhance new features such as robust Brown Out Detection (BOD), Programmable Gain Amplifier, clock switching on the fly, readable RTC and analog temperature sensor.

Available products:

Product Type
P89LPC9151FDH
P89LPC9161FDH
P89LPC9171FDH

Timelines on LPC91x1

- **Product status** = Production in December
- **Datasheet** = Available in December
- **Samples** = Contact your local account manager
- **More information** = [Available on web](#)

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LPC9361 – UPDATE

The LPC9361 is an improved version of our existing LPC936 8-bit microcontroller. The LPC9361 enhances new features such as robust Brown Out Detection (BOD), Programmable Gain Amplifier, clock switching on the fly, readable RTC and analog temperature sensor.

Timelines on LPC9361

- **Product status** = Production
- **Datasheet** = [Available on web](#)
- **Samples** = Available in October
- **More information** = [Available on web](#)

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LPC97x and LPC98x – **NEW**

NXP is introducing the 1st wide-range voltage 8-bit microcontroller the LPC97x and LPC98x families.

The table below summarizes the new LPC97x and LPC98x series

Type	Memory			Timers			Serial interfaces			Analog					I/O pins	Frequency range (MHz) at 3 V	Temp. range options	Package	Comments / special features
	FLASH / EEPROM (program / data)	EEPROM (data)	RAM	No. of timers	PWM	RTC / system timer / WD	UART	I2C	SPI	ADC channels resolution	DAC channels resolution	Temp Sensor	Comparators	Programmable Gain Amplifier					
LPC98x devices																			
P89LPC985	8 KB		512 B	7	5	1	1	1	1	8/10b			2	26	0-18	F	TSSOP28, PLCC28	2.4-5.5v power supply	
P89LPC983	4 KB		256 B	7	5	1	1	1	1	4/10b			2	26	0-18	F	TSSOP28	PC980 with 4-ch 10-bit ADC	
P89LPC982	8 KB		512 B	7	5	1	1	1	1				2	26	0-18	F	TSSOP28, PLCC28	LPC985 without ADC	
P89LPC980	4 KB		256 B	7	5	1	1	1	1				2	26	0-18	F	TSSOP28	4K flash version of LPC982	
LPC97x devices																			
P89LPC972	8 KB		256 B	7	5	1	1	1	1[1]				2	18	0-18	F	TSSOP20, DIP20	20pin version of LPC982	
P89LPC971	4 KB		256 B	7	5	1	1	1	1[1]				2	18	0-18	F	TSSOP20	4K flash version of LPC972	
P89LPC970	2 KB		256 B	7	5	1	1	1	1[1]				2	18	0-18	F	TSSOP20	2K flash version of LPC972	

Product Characteristics:

- 8kB/4kB/2kB byte-erasable flash w 1kB sector size
- 256B byte RAM, 256B XRAM (LPC982/985)
- 2.4V to 5.5V VDD power supply
- 4/8 channel 10-bit A/D converter (LPC983/985)
- 16-bit readable RTC
- Robust Brown Out Detection (BOD)
- Clock switching on the fly
- Pin remap for UART/I2C/SPI

Timelines on LPC97x

- **Product status** = In production end of October
- **Datasheet** = Available on the web by end of October
- **Samples** = Available by end of October
- **More information** = [Available on web](#)

Timelines on LPC98x

- **Product status** = LPC980 and LPC982 in production end of October, LPC983 and LPC985 in production in November
- **Datasheet** = Contact your local account manager
- **Samples** = LPC980 and LPC982 available by end of October, LPC983 and LPC985 available in November
- **More information** = [Available on web](#)

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LPC111x – UPDATE

Timelines on LPC111x

- **Product status** = Production in 1Q 2010.
- **Datasheet** = Contact your local account manager
- **Samples** = Available in Nov. Contact your local account manager
- **Tools** = Available in 1Q 2010.
- **More information** = [Available on web](#)

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LPC131x – UPDATE

Timelines on LPC131x

- **Product status** = In production.
- **Datasheet** = [Available on web](#)
- **Samples** = Available.
- **Tools** = Keil MCB1000 boards and Hitex LPC1313 sticks available. For more info click on: [Development Boards](#).
- **More information** = [Available on web](#)

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LPC134x – UPDATE

Timelines on LPC134x

- **Product status** = In production in November.
- **Datasheet** = [Available on web](#)
- **Samples** = Available.
- **Tools** = Keil MCB1000 boards and Hitex LPC1343 sticks available. LPCXpresso boards will be available end of Nov. For more info click on: [Development Boards](#).
- **More information** = [Available on web](#)

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LPC1700 – UPDATE

We have just created the new LPC1767, which is the same as the LPC1768 but without USB and CAN. It will be in production the beginning of October and the datasheet/User Manual/Errata Sheet will be updated soon.

We are currently in the process of qualifying two new LPC1700 devices, the LPC1769 and LPC1759, which will run to a maximum of 120 MHz. The LPC1769 is the same as the LPC1768 but running at 120 MHz. The LPC1759 is the same as the LPC1758, but without Ethernet and running at 120 MHz.

- Cortex-M3 LPC176x IBIS models are now available at <http://www.standardics.nxp.com/support/models/lpc1000/>
- The Free USBHostLite stack has been ported to the LPC1700 series and includes mass storage class support. USBHostLite runs in an OS-less environment and provides a simple solution for accessing the files on USB mass storage devices such as USB Pen Drives, USB Hard Disk Drives, etc., connected to the USB Host port. <http://www.standardics.nxp.com/support/software/usb.host.msc/>

Timelines on LPC1700

- **Product status** = Production
- **Datasheet and User Manual** = [Available on web](#)
- **Samples** = LPC1759/69 samples available by end of 2009
- **Tools** = Keil LPC1758 and IAR LPC1768 boards are now in eTools. mbed LPC1768 boards will be available end of October. For more info click on: [Development Boards](#)
- **More Information** = [Available on web](#)

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LPC2103 Package – UPDATE

We have released a smaller 6x6x0.85mm HVQFN packaged LPC2103. The new part number is LPC2103FHN48H.

Timelines on LPC2103

- **Product status** = Production
- **Datasheet and User Manual:** [Available on web](#)
- **Samples:** Available
- **More information** = [Available on web](#)

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LPC2364 – UPDATE

NXP recently released an automotive temperature version of the LPC2364: LPC2364HBD (where the H stands for -40 °C to +125 °C)

Timelines on LPC2364

- **Product status** = Production
- **Datasheet** = [Available on web](#)
- **Samples** = Available
- **More information** = [Available on web](#)

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LPC2400 Rev D – UPDATE

We are now sampling Rev D parts for those devices that are currently Rev C ; LPC2460FBD208, LPC2460FET208, LPC2470FBD208, LPC2470FET208, LPC2478FBD208, LPC2478FET208,

LPC2420FET208 and LPC2420FBD208. We will allow for a few months after sampling before we change over completely to the new Rev D for these part types.

- **LPC2420 BGA Package Update:** We have just begun sampling the LPC2420 in a TFBGA 208-pin package. Rev D samples are available. Contact your local account manager. The datasheet will be updated soon.

Timelines on LPC2400 Rev D

- **Product status** = In production.
- **Datasheet** = [Available on web](#)
- **Errata sheet** = Updated and [available on web](#).
- **Samples** = Available.
- **More information** = [Available on web](#)

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LH7/LH7A (BlueStreak MCU) - UPDATE**Timelines**

- **Product status** = In production
- **Datasheet** = Available on web for [LH7](#) and [LH7A](#)
- **Samples** = Available.
- **Tools** = The Logic PD low Cost [LH7A404 266MHz RoHS Zoom Starter Development Kit](#) and [LCD-4.3-WQVGA](#) Zoom Display kits for use with LH7/LH7A kits are available. For more info click on: [Development Boards](#)
- **More information** = Available on web for [LH7](#) and [LH7A](#)

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LPC2900 – UPDATE

- Updated [User Manual](#) is now posted on the web
- [USBHostLite](#) is now available for LPC293x

Timelines

- **Product status** = In production
- **Datasheet** = [Available on web](#)
- **Samples** = Available
- **More information** = [Available on web](#)

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LPC313x/LPC314x/LPC315x – UPDATE

We continue to see strong interest in the LPC31xx parts due to the rich feature set and the low ASP.

- Development boards (LPC3131/LPC3141/LPC3152) are now available. For more information go to the [Embedded Artist website](#).
- We have posted Revision R2B of the [Linux BSP for LPC313x/LPC314x/LPC315x](#) with release R3 scheduled for November, 2009.
- The [User Manual](#) for LPC314x/LPC315x is posted on the website as well.
- We have removed the Errata Sheet after confirming that the “boot from 1.8v NAND errata” was due to a board problem.
- NXP has partnered with Timesys to incorporate LPC3131 support into Timesys' LinuxLink framework, with support for the Embedded Artists development board. Customers now have access to a comprehensive commercial Linux solution from Timesys, which includes kernels, tools, hundreds of middleware packages, an intuitive wizard-based development environment and full technical support from Linux experts. Of course if customers have the necessary Linux expertise in-house they can continue to use the free BSP from NXP, which is incorporated in the Timesys LinuxLink solution.

Timelines

- **Product status** = LPC313x in production. LPC314x & LPC315x in production in October.
- **Datasheet** = [Available on web](#)
- **Samples** = Available
- **Tools:** EA LPC313x with Ethernet and EA LPC314x boards are available. (For more info click on: [Development Boards](#)).
- **More information** = [Available on web](#)

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LPC32x0 – UPDATE

We have published a CPCN for the LPC32x0 Rev A silicon. The standard procedure is that we will deplete the old die first and then switch over to the new die. We understand that some customers need Rev A immediately. In those cases we are willing to set up a CP number to guarantee Rev A shipments. However we will need to get the confirmation from the customer involved that eventually when the old die is depleted they will switch over to the standard part number sourced from the same die. Please work with your local account manager if a CP number is needed.



PCN200908002F.PD

F

- We have posted a new [“LCD Bus Load calculator”](#) to take into account the performance boost from the LCD fix.
- A DDR Interface Errata (and its work-around) has been added to the [LPC32x0 Errata Sheet](#)
- Embedded Artist has introduced its own [LPC3250 Development Kit](#) giving our customers another option to develop with LPC32x0. The Kit is based on Rev A silicon. They have also added LPC3250 Linux port to their support pages together with a "Getting Started" manual.
- Phytex has upgraded its own [LPC3250 Rapid Development Kit](#) with Rev A silicon.
- Hitex has upgraded its own [LPC-3250 Stick](#) with Rev A Silicon
- Future Design has also upgraded its own [LPC3250 Touch Screen Kit](#) with Rev A silicon
- InterNiche has ported its [NicheLite](#) (a TCP/IP stack optimized for embedded systems) to the LPC3250 Rapid Development Kit from Phytex

Timelines

- **Product status** = Rev. A is in production.
- **Datasheet** = [Available on web](#)
- **Samples** = Available
- **Tools** = Phytex LPC3250 Rev A and Embedded Artists LPC3250 Rev A boards available. For more info click on: [Development Boards](#).
- **More information** = [Available on web](#)

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Sample Updates

LPC23xx and LPC24xx rev B/C to rev D

We are now sampling Rev D parts for those devices that are currently Rev C: LPC2460FBD208, LPC2460FET208, LPC2470FBD208, LPC2470FET208, LPC2478FBD208, LPC2478FET208, LPC2420FET208 and LPC2420FBD208. All other LPC24xx and LPC23xx devices will continue with Rev B until late Q4 2009. This change does not require a PCN update, so the final PCN that was sent out will not be revised.

Development Boards

The following new microcontroller development tools are now available:

EA LPC313x Eval Board w/Ethernet *(replacement for earlier LPC313x version)*



Embedded Artists' LPC3131 Developer's Kit lets you get up-and-running quickly with the LPC3131 OEM Board. The LPC3131 OEM Board is equipped with NXP's ARM926EJ-S based LPC3131 microcontroller suitable for a wide range of applications requiring low power consumption, high performance and flexible USB connectivity.

More information can be found at:

http://www.embeddedartists.com/products/uclinux/oem_lpc3131_bundle.php

IAR LPC1700 KS Board



IAR KickStart Kit for LPC1768 contains all the necessary hardware and software and allows you to design, develop, integrate and test your applications:

- LPC1768 evaluation board
- IAR Embedded Workbench for ARM 32KB limited edition

- IAR PowerPac for ARM evaluation edition
- IAR visualSTATE evaluation edition
- IAR J-Link for ARM
- Example applications for the LPC1768 board from IAR Systems
- IAR PowerPac board support package – coming soon

More information can be found at: http://iar.com/website1/1.0.1.0/658/1/?item=prod_prod-s1/487&group=prod_prod_grp-s1/34

Keil MCB1758 Eval Board



The Keil MCB1750 Evaluation Board introduces the new NXP LPC1750 family of ARM Cortex-M3 processor-based devices, allowing you to create and test working programs for this advanced architecture. The MCB1750 has a wide range of interfaces making it a great starting point for your next Cortex-M3 project.

More information can be found at: <http://www.keil.com/mcb1700/mcb1750.asp>

EA LPC314x Eval Board

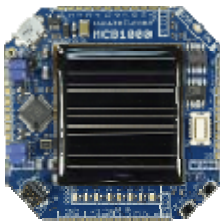


Embedded Artists' LPC3141 Developer's Kit lets you get up-and-running quickly with the LPC3141 OEM Board. The LPC3141 OEM Board is equipped with NXP's ARM926EJ-S based LPC3141 microcontroller suitable for a wide range of applications requiring low power consumption, high performance and flexible USB connectivity.

More information can be found at:

http://www.embeddedartists.com/products/uclinux/oem_lpc3152_bundle.php

Keil MCB1000 Eval Board *(Limited quantities currently available)*



The Keil MCB1000 board is the first board available for the LPC1300 series. There are limited quantities available currently. More information on the tool will be available in November. For questions on the board, please contact your local account manager.

Hitex LPC1313 USB Stick



Discover the performance of the LPC1313 Cortex-M3™ core with the LPC1313-Stick. The LPC-Stick is a small modular evaluation kit with optional extension boards. The LPC-Stick package provides target hardware with the relative microcontroller from NXP, user pins and LEDs for applications use. Combined with the proven USB debugger device connection and the non-limited HiTOP development tools the LPC-Stick allows full access to all chip features, debugging and programming.

More information can be found at:

http://www.ehitex.de/p_info.php?xPD=113_115&products_id=537

mbed LPC2368 Board *(Available end of October/early November)*



The mbed LPC2368 is a tool for rapid prototyping with microcontrollers with an ARM processor, a comprehensive set of peripherals and a USB programming and communication interface provided in a small and practical DIP package.

More information can be found at: <http://mbed.org/nxp/lpc2368/>

mbed LPC1768 Board



The mbed LPC1768 is a tool for rapid prototyping with microcontrollers with an ARM processor, a comprehensive set of peripherals and a USB programming and communication interface provided in a small and practical DIP package.

More information can be found at: <http://mbed.org/nxp/lpc1768/>

Logic PD Zoom Kit for LH7A404



By providing a product-ready hardware and software platform, Logic's embedded solutions fast forward development and help you stay focused on your high-value core technologies. The Zoom™ Starter Development Kit (SDK) is a low-cost, high-performance application development kit for evaluating the functionality of the System on Module (SOM) Card Engine and associated processor.

More information can be found at: <http://www.logicpd.com/products/development-kits/nxp-zoom%E2%84%A2-sdk>

EA LPC3250 Eval Board (Rev A)



Embedded Artists' LPC3250 Developer's Kit lets you get up-and-running quickly with the LPC3250 OEM Board. The LPC3250 OEM Board is equipped with NXP's ARM926EJ-S based LPC3250 microcontroller suitable for applications that require high performance, high integration, and low power consumption. The LPC3250 OEM Board is using LPC3250 MCU rev A.

More information can be found at: http://www.embeddedartists.com/products/kits/lpc3250_kit.php?PHPSESSID=9pr3inn1lhg031ic0i990skin5

Hitex LPC1343 USB Stick



Discover the performance of the LPC1343 Cortex-M3™ core with the LPC1343-Stick. The LPC-Stick is a small modular evaluation kit with optional extension boards. The LPC-Stick package provides target hardware with the relative microcontroller from NXP, user pins and LEDs for applications use. Combined with the proven USB debugger device connection and the non-limited HiTOP development tools the LPC-Stick allows full access to all chip features, debugging and programming.

More information can be found at: http://www.ehitex.de/p_info.php?xPD=113_115&products_id=538

Logic PD QVGA Zoom Display Kit for LH7 and LH7A



The Zoom™ Display Kits are ready-to-use liquid crystal displays (LCDs) that can be immediately connected to Zoom™ Development Kits. The 3.6" and 6.4" Display Kits include bezel, backlight, 4-wire resistive touch panel, and ribbon cable. The 4.3" Display Kit includes 4-wire resistive touch panel and an LCD connector built into the PCB.

More information can be found at: <http://www.logicpd.com/products/display-kits/43-wqvga-display-kit>

Training/LPCZone



We created a new LPCZone Channel on YouTube: <http://www.youtube.com/LPCZone> . And have just added a new playlist with two new [mbed videos](#). We' like to encourage customers and tool vendors to post and share videos about our LPC microcontrollers on the LPCZone Channel.

To submit a video to be posted on the YouTube LPCZone channel, visit <http://www.youtube.com/LPCZone> and click 'Send Message' in the orange 'Connect with LPCZone' box (a YouTube or Google account is necessary to do this).

You can also find links to YouTube updates on the [LPCZone](#) in the new YouTube Updates section on the bottom right:

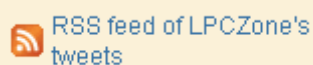


Also, don't forget to receive regular news updates about NXP Microcontrollers on Twitter: follow Twitter user name 'LPCZone' or visit <http://twitter.com/LPCZone> to sign up!

Since the previous edition of the newsletter we sent out more than 125 updates about new and updated Data Sheets, User Manuals, Errata Sheets, Application Notes, Development Tools, leaflets, press releases, web site updates, and more!

For an RSS feed of all LPCZone updates on Twitter, just follow these 3 easy steps:

- 1) Go to <http://twitter.com/LPCZone>
- 2) Click on the RSS feed link in the right column



- 3) Subscribe to the RSS feed using your favorite RSS feed viewer.

To follow LPCZone on Twitter, just follow these 4 easy steps:

- 1) If you already have a Twitter account, log into your account here: <http://twitter.com/login>
If you don't already have a Twitter account, please create one here:
<http://twitter.com/signup>
- 2) After you are logged into Twitter, click on 'Find People'
- 3) Enter 'LPCZone' into the search box and click 'Search'.
- 4) Click 'Follow' next to the LPCZone listing. You are now following LPCZone on Twitter!

Since the previous edition of the newsletter 144 people and organizations started following LPCZone on Twitter, and many more are receiving RSS feeds.

Application Notes

- Application Notes added to Website:
 1. [AN10851](#) Using Code Read Protection in LPC1700 (with software), V1 (Jul 23, 2009)
 2. [AN10703](#) NXP USB host lite, V1 (Jul 14, 2008)
 3. [AN10775](#) NicheLite for LPC Implementation Notes, V2 (Jul 13, 2009)
 4. [AN10846](#) Getting started with NicheLite for LPC3250, V1 (Jul 1, 2009)
 5. [AN10850](#) LPC1700 timer-triggered memory-to-GPIO data transfer (with software), V1 (Jul 16, 2009)
 6. [AN10849](#) LPC1700 RTC hardware auto calibration (with software), V1 (Jul 1, 2009)
 7. [AN10845](#) Porting uIP1.0 to LPC1700 (with Software), V1 (Jun 30, 2009)
 8. [AN10799](#) Porting uIP1.0 to LPC23xx/24xx (with Software), V2 (Jun 15, 2009)
- [LPC1700 CMSIS Code Bundle](#) released
- [LPC1300 CQS](#) of non-USB parts
- [LPC3250 RevA](#) silicon available. LCD errata fix.

All other updated Tech notes, Application Notes etc can be found at:

<http://www.standardics.nxp.com/support/documents/microcontrollers/?sort=date>

Literature Updates

PDFs of all MCU literature can be found at:

<http://www.standardics.nxp.com/literature/microcontrollers/>

- [MCU Linecard \(September 2009\)](#)
- [LPC91x1](#)
- [LPC97x](#)
- [LPC98x](#)
- [LPC314x](#)
- [LPC315x](#)
- [Mbed LPC1768 tool](#)

Tradeshows

One-Chip Solution Open Seminars (Japan)

These were free seminars given with partners including ARM Japan, IAR Japan, eForce and FEC.

- September 10th in Osaka with 23 participants.
- September 15th in Tokyo with 46 persons for a 30 seat class

ESC Boston 2009 (US)

At the September 22 – 23rd event in Boston, MA, although attendance was down overall for the event, we had good representation at our free sponsored session room where we presented updated information on our Cortex-M0 products as well as new sessions on our USB offering. With over 150 attendees for the 2 days, our sponsored sessions were one of the highlights of the event. We also saw good press pick-up around the mbed announcement.

As well as participating in our sponsored session room, we had a small 10x10 booth on the show floor showcasing our LPC1300 demonstrations and the new mbed rapid prototyping tool from the mbed team, which was the hit of the show (see wrap up report from mbed team (<http://mbed.org/>)). Our partner, Code Red, demonstrated a beta version of our LPCXpresso alongside the Code Red LPC1700 demonstration along with contributing to our sponsored session courses. We also showed an LPC3100 demonstration, showing our continued development work in our ARM 9 portfolio. And along with our 10x10 booth we also participated in the ARM Pavilion on the show floor which showcased our latest LPC1100 demo.

Overall, a good show for NXP with good feedback on our sponsored sessions and great traction for the recent mbed announcement.

ESC Farnborough (UK)

This was the first time ESC was held in the UK, October 7-8, and the first time NXP would be participating. As a new event for the NXP team, there was more planning for the event. But with the help of the NXP UK team coordinating FAE trainings as well as promoting the show, the entire event was a great success.

Our PR team set up a number of interviews with the UK press. In our 1mx3m booth, just like at ESC Boston, we again showcased our LPC1100, LPC1300, and mbed demonstrations to great reviews.

Our 1 day sponsored sessions were well attended with most of the sessions filled to capacity.

For a first time event, we were pleased with our presence and the attendance at the show and overall, another successful event for NXP.



One-Chip Seminars (Japan)



mbed at ESC Boston

Learn today. Design tomorrow.



Farnborough • October 6 - 8, 2009
FIVE International Show Centre • UK

ESC UK

Upcoming Events

ESC UK	October 7 - 8
VITEC Roadshow (JPN)	October 19
ARM TechCon	October 21 - 23
ARM MCU Expo in ET2009 (JPN)	November 18 - 20
Thanksgiving Holiday (US)	November 26 - 27
Christmas Holiday (US)	December 24 - 25
New Year's Eve (US)	December 31 – January 1

OCTOBER 2009						
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DECEMBER 2009						
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