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Product data sheet Rev. 2.12 — 3 September 2020 6 of 95 NXP Semiconductors LPC5410x 32-bit ARM Cortex-M4/M0+ microcontroller The LPC5410x LQFP64 package has the following top-side marking: • First

line: LPC5410xJyyy – x: 2 = dual core (M4, M0+), 1 = single core (M4) – yyy: flash size • Second line: BD64 • Third line: xxxxxxxxxxxx

1. General description - NXP Semiconductors
32-bit ARM Cortex-M4/M0+ MCU; 104

kB SRAM; 512 kB flash, 3 x I2C, 2 x SPI, 4 x USART, 32-bit counter/ timers, SCTimer/PWM, 12-bit 5.0 Msamples/sec ADC, LPC5410X datasheet, LPC5410X circuit, LPC5410X data sheet : NXP, alldatasheet, datasheet, Datasheet search site for Electronic Components

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Frequency.1: The maximum opera ting system clock on the LPC5410x device is limited to 96 MHz. Introduction: The LPC5410x data sheet specifies that the LPC5410x device can operate at CPU frequencies up to 100 MHz. Problem:

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Chapter 1: LPC5410x Introductory
information 1.4 Architectural overview
The ARM Cortex-M4 includes three
AHB-Lite buses, one system bus and
the I-code and D-code buses. One bus
is dedicated for instruction fetch (I-

code), and one bus is dedicated for data access (D-code). The use of two core buses allows for simultaneous

UM10850 LPC5410x User manual - Farnell element14
Page 48 UM10850 NXP Semiconductors Chapter 4: LPC5410x

System configuration (SYSCON) 4.5.37.2 System PLL status register The read-only PLL0_STAT SYSPLLSTAT register provides the PLL lock status Remark: The lock status does not reliably indicate the PLL status for the following two configurations: spread-spectrum mode

or fractional enabled or low input clock frequencies such as 32 kHz.

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NXP LPC5410x ARM Microcontrollers offer asymmetric dual-core architecture with low power

consumption for always on sensor applications.

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When in an active mode, developers can optimize power efficiency and throughput by choosing between the power-efficient Cortex-M0+ core for data collection, aggregation, and

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system task management, or the Cortex-M4 core, which can complete processor-intensive algorithms, such as sensor fusion more quickly helping to reduce power consumed.

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Technical Data NXP LPC5410x ARM
microcontrollers are ARM Cortex-M4
MCUs with an optional Cortex-M0+ co-
processor. The LPC5410x is designed
for embedded applications and offers
low power consumption, enhanced

debug features, and a high level of support block integration. The ARM Cortex-M4 Lpc5410x Data Sheet Nxp Semiconductors

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Technical Data NXP LPC5410x ARM microcontrollers are ARM Cortex-M4 MCUs with an optional Cortex-M0+ co-processor. The LPC5410x is designed for embedded applications and offers low power consumption, enhanced debug features, and a high level of support block integration.

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ARM ...

1. General description The LPC51U68 are ARM Cortex-M0+ based microcontrollers for embedded applications. These devices include 96 KB of on-chip SRAM, 256 KB on-chip flash, full-speed USB

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Cortex-M4/M0+ MCU; 192 KB SRAM; 256 KB flash, Crystal-less USB operation, DMIC subsystem, Flexcomm Interface, 32-bit counter/ timers, SCTimer/PWM, 12-bit 5.0 Msamples/sec ADC, Temperature sensor.

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4 x USART, 32-bit counter/ timers,
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