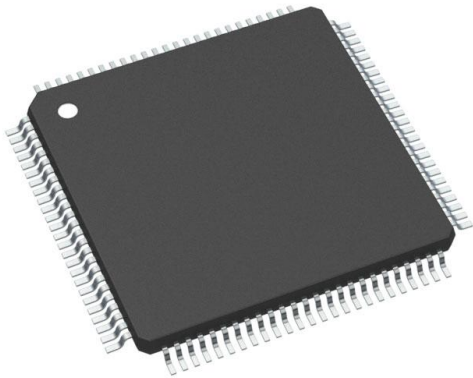


# LPC5526JBD100K Datasheet

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<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	LPC5526JBD100K-DG
Manufacturer	<a href="#">NXP USA Inc.</a>
Manufacturer Product Number	LPC5526JBD100K
Description	IC MCU 32BIT 256KB FLSH 100HLQFP
Detailed Description	ARM® Cortex®-M33 LPC552x Microcontroller IC 32-Bit Single-Core 150MHz 256KB (256K x 8) FLASH 100-HLQFP (14x14)

This model LPC5526JBD100K is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

LPC5526JBD100K

Series:

LPC552x

DiGi-Electronics Programmable:

Not Verified

Core Size:

32-Bit Single-Core

Connectivity:

Flexcomm, I2C, MMC/SD/SDIO, SPI, UART/USART, USB

Number of I/O:

64

Program Memory Type:

FLASH

RAM Size:

144K x 8

Data Converters:

A/D 10x16b

Operating Temperature:

-40°C ~ 105°C (TA)

Supplier Device Package:

100-HLQFP (14x14)

Base Product Number:

LPC5526

Manufacturer:

NXP USA Inc.

Product Status:

Active

Core Processor:

ARM® Cortex®-M33

Speed:

150MHz

Peripherals:

Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT

Program Memory Size:

256KB (256K x 8)

EEPROM Size:

-

Voltage - Supply (Vcc/Vdd):

1.8V ~ 3.6V

Oscillator Type:

Internal

Mounting Type:

Surface Mount

Package / Case:

100-LQFP Exposed Pad

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.31.0001

Moisture Sensitivity Level (MSL):

3 (168 Hours)

ECCN:

5A992C



Further expanding  
the market's first  
Arm® Cortex®-M33  
MCU Series

## LPC552x MCU Family

Building on the LPC55S6x MCU family, LPC552x MCUs bring to market advanced energy efficiency and real-time performance with embedded security and protection, leveraging NXP's cost effective 40-nm embedded flash technology.

### OVERVIEW

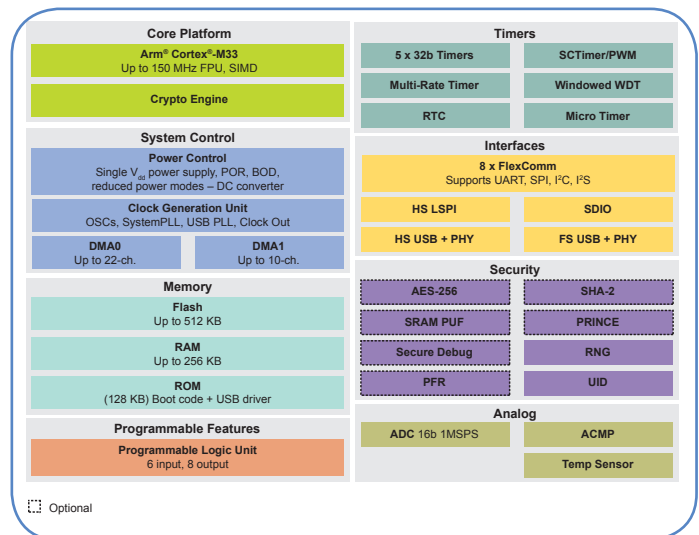
The LPC552x MCU family expands on the world's first general purpose Arm Cortex-M33-based microcontroller introduced with the LPC5500 series. This mainstream family provides a perfect balance between security, performance efficiency and system integration for the general embedded and industrial IoT markets. The LPC552x MCU family combines the high performance efficiency of the Cortex-M33 core with multiple high-speed interfaces, an integrated power management IC, and rich analog integration.

The LPC5500 MCU series offers significant advantages for developers, including cost-effective 40-nm NVM process technology, along with pin-, software- and peripheral-compatibility for ease of use and accelerating time to market. This series is supported by NXP's comprehensive enablement package, including MCUXpresso software and tools along with low-cost development boards.

### TARGET APPLICATIONS

- ▶ Consumer electronics
- ▶ Diagnostic equipment
- ▶ Building control and automation
- ▶ Secure applications
- ▶ Industrial IoT
- ▶ General embedded

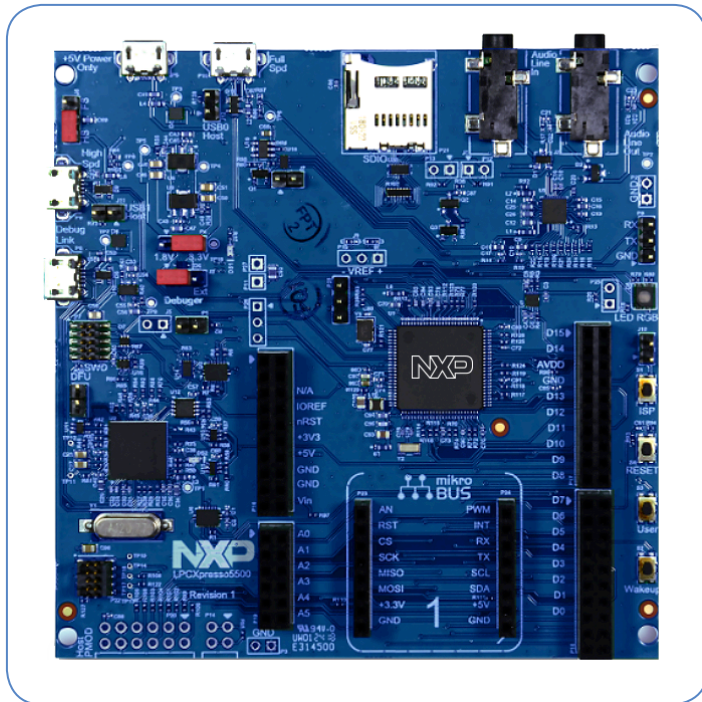
### LPC552x MCU FAMILY BLOCK DIAGRAM



## HIGH INTEGRATION AND ADVANCED SECURITY

The LPC552x MCU family offers the right combination of feature integration, low power consumption and security capabilities. With multiple connectivity options including high-speed USB with on-chip PHY, high-speed SPI, SDIO and the popular FlexComm interfaces (configurable as either SPI/I<sup>2</sup>C/I<sup>2</sup>S,UART) this MCU family features a versatile integration for today's demanding applications. The security capabilities of the LPC552x MCU family include SRAM PUF for root of trust and provisioning, a hardware symmetric encryption/decryption engine, secure debug and the PRINCE engine for real-time execution from encrypted images.

## LPCXpresso55S28 Development Board (LPC55S28-EVK)



## COMPREHENSIVE ENABLEMENT SOLUTIONS

- ▶ Comprehensive MCUXpresso SDK
  - Extensive suite of robust peripheral drivers, stacks and middleware
  - Example code, including SHA/AES, SRAM PUF and secure boot startup enablement
- ▶ Integrated Development Environments (IDE)
  - MCUXpresso IDE
  - IAR® Embedded Workbench
  - Arm Keil® Microcontroller Development Kit
- ▶ ROM
  - Dedicated bootloader for the LPC5500 MCU Family
  - In-system flash programming over serial connection: erase, program, verify
  - ROM or flash-based bootloader with open-source software and host-side programming utilities
- ▶ Development Hardware
  - LPCXpresso development boards
    - LPC55S2x Cortex-M33 based MCU
    - Onboard, high-speed USB, Link2 debug probe
    - Flexible expansion – Arduino®, Mikroe and PMod headers
    - Various on-board interfaces and components



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IAR  
SYSTEMS

## LPC552x MCU FAMILY OPTIONS

Part Number	CPU Freq (MHz)	Flash	SRAM	Secure Boot	Crypto Accel	On the Fly Encrypt/Decrypt	SRAM PUF	FS&HS USB	SDIO	Packages
LPC55S28	150	512 KB	256 KB	✓	✓	✓	✓	✓	✓	HLQFP100, VFBGA98, HTQFP64
LPC55S26	150	256 KB	144 KB	✓	✓	✓	✓	✓	✓	HLQFP100, VFBGA98, HTQFP64
LPC5528	150	512 KB	256 KB	-	-	-	-	✓	✓	HLQFP100, VFBGA98, HTQFP64
LPC5526	150	256 KB	144 KB	-	-	-	-	✓	✓	HLQFP100, VFBGA98, HTQFP64

**Note:** LPC55S2x/2x does not support Arm TrustZone technology.

[www.nxp.com/LPC552x](http://www.nxp.com/LPC552x)

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