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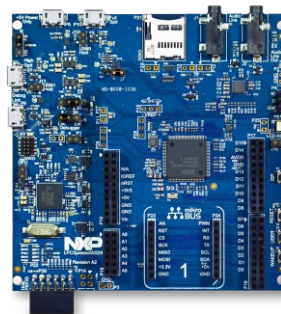
MCUXpresso

Software support and application development

Overview

The LPCXpresso55S28 development board provides the ideal platform for evaluation of and development with the LPC552x/S2x MCU based on the Arm® Cortex®-M33 architecture. The board includes a high-performance onboard debug probe, audio subsystem and accelerometer, with several options for adding off-the-shelf add-on boards for networking, sensors, displays, and other interfaces.

The LPCXpresso55S28 is fully supported by the MCUXpresso suite of tools, which provides device drivers, middleware and examples to allow rapid development, plus configuration tools and an optional free IDE. MCUXpresso software is compatible with the open source MCU operating system FreeRTOS, tools from popular tool vendors such as Arm and IAR, and the LPCXpresso55S28 may also be used with the popular debug probes available from SEGGER and P&E Micro.



Specifications

Technical and Functional Specifications


Microcontroller

LPC55S28 Arm Cortex-M33 microcontroller running at up to 150 MHz

Memory Expansion	Micro SD card slot (4-bit SDIO)
Connectivity	<ul style="list-style-type: none"> ■ UART and SPI port bridging from LPC55S28 target to USB via the onboard debug probe ■ High and full speed USB ports with micro A/B connector for host or device functionality
Debug	<ul style="list-style-type: none"> ■ Onboard, high-speed USB, Link2 debug probe with CMSIS-DAP and SEGGER J-Link protocol options ■ Hardware support for external debug probe
Sensors	NXP MMA8652FCR1 accelerometer
Audio	Stereo audio codec with line in/out
Expansion Options	<ul style="list-style-type: none"> ■ MikroElektronika Click expansion option ■ LPCXpresso-V3 expansion connectors, compatible with Arduino UNO R3 ■ PMod compatible expansion / host connector
User Interface	RGB user LED, plus Reset, ISP, Wake and user buttons




Supported Devices	
Processors and Microcontrollers	
LPC5500 Cortex-M33	<ul style="list-style-type: none"> ■ LPC552x-S2x : LPC552x/S2x: Mainstream Arm® Cortex®-M33-based Microcontroller Family

Documents and Software



Get Started with the LPC55S28 Development Board

Get Started

<p>DOCUMENTS (2)</p> <ul style="list-style-type: none"> Users Guide (2) <p>SOFTWARE (3)</p> <ul style="list-style-type: none"> Development Software (1) Embedded Software (2) 	<h3>Documents</h3> <p>Users Guide (2)</p> <ul style="list-style-type: none">  Get Started with the LPC55S28 Development Board <small>UPDATED</small> 17 Oct 2019 GS-LPC55S28-EVK GS-LPC55S28-EVK [English]  LPCXpresso55S69/LPCXpresso55S28 Development Board User Manual (REV 1.3) <small>UPDATED</small> 
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