

TN00028

LPC54608 emWin Touch and Draw example with FreeRTOS

1.0 — 22 December 2017

Technical note

Document information

Info	Content
Keywords	LPC54608, LCD, touch controller, emWin graphics library, FreeRTOS
Abstract	This technical note describes an example on LPC54608 LPCXpresso board using emWin graphics library and FreeRTOS.



Revision history

Rev	Date	Description
1.0	20171222	Initial version.

Contact information

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1. Introduction

The LPC5460x is a family of ARM Cortex-M4 based microcontrollers for embedded applications. The LPCXpresso development board for LPC5460x MCUs is used in this technical note. For details of the board, see:

<http://www.nxp.com/products/microcontrollers-and-processors/arm-processors/lpc-cortex-m-mcus/lpc54000-series-cortex-m4-mcus/lpcxpresso-development-board-for-lpc5460x-mcus:OM13092>



Fig 1. LPC54608 LPCXpresso development board

This technical note gives an overview of using emWin graphics library with FreeRTOS.

2. Description

The demo shows how to use emWin graphics library with FreeRTOS to follow user's touch to draw lines or other shapes on the LCD screen of LPCXpresso54608 board.

The example is available in three tool chains:

- MCUXpresso IDE v10.0
- Keil MDK v5.23
- IAR Workbench v8.20.1

The Keil and IAR examples are found in:

**lpcpresso54608_freertos_emwin_touch_and_draw_keil_iar\SDK_2.2_LPCXpresso
54608\boards\lpcpresso54608\rtos_examples**

The MCUXpresso example can be found in the zip file:

lpcpresso54608_freertos_emwin_touch_and_draw_mcux.zip

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