

## LVGL FreeRTOS Demo on AT32

### Introduction

This sample code uses AT-F437-SURF board to demonstrate how to move LVGL case to FreeRTOS system.

Applicable products:

Product series	AT32F435XX
	AT32F437XX

List of major peripherals used:

Peripherals	XMC
	DMA
	USART

# 1 Overview

As an exceptional RTOS, FreeRTOS is widely used in embedded devices. LVGL is an open-source GUI that is very popular among developers. This sample code uses ARTERY's surf board to demonstrate how to run LVGL on FreeRTOS. In this demo, XMC+DMA from AT32 MCU is used to drive LCD.

## 2 Quick start

### 2.1 Hardware resources

- 1) AT-START-F437 board
- 2) 3.5 TFTLCD

### 2.2 Software resources

- SC0118\_SourceCode

### 2.3 Example case

Open SourceCode\project\at\_surf\_f437\applications\Benchmark\mdk\_v5, compile and download it to the evaluation board

### 3 Revision history

Table 1. Document revision history

Date	Revision	Changes
2023.05.04	2.0.0	Initial release

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