

LVGL meter display demo built on AT32F437

Introduction

This sample code is built around AT32F437 microcontroller and LVGL V8 meter.

Note: This sample code is written based on Artery's V2.x.x BSP. For other versions of BSP, users should pay attention to the differences in use.

Applicable products:

| | |
|----------------|------------|
| Product series | AT32F435xx |
| | AT32F437xx |

List of major peripherals used:

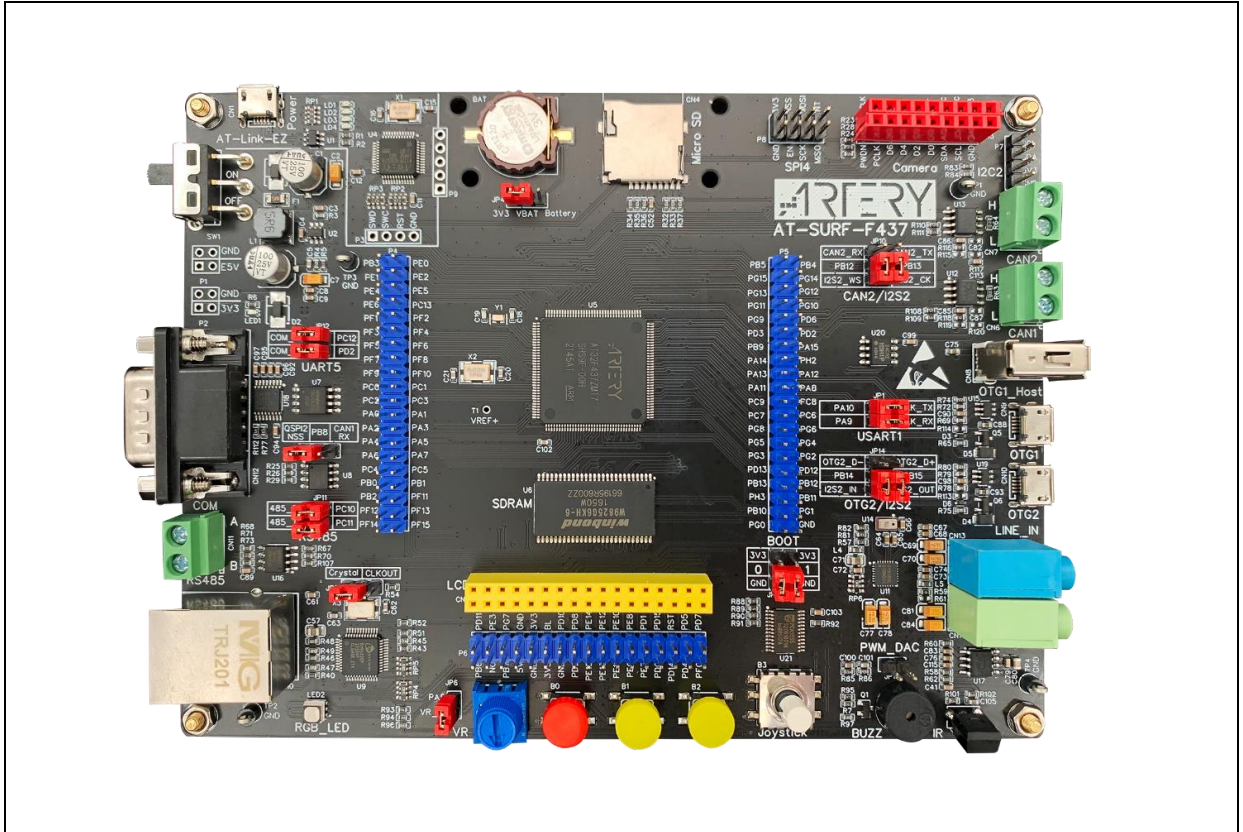
| | |
|-------------|------|
| Peripherals | XMC |
| | DMA |
| | TMR |
| | GPIO |

1 Quick start

1.1 Hardware resources

- 1) AT-SURF-F437 V1.0 evaluation board (for other product series, please use corresponding evaluation board)

Figure 1. AT-START-F437 V1.0 evaluation board



- 2) ALIENTEK 4.3' TFT LCD (download from ALIENTEK official website)

Figure 2. ALIENTEK 4.3' TFT LCD



1.2 Software resources

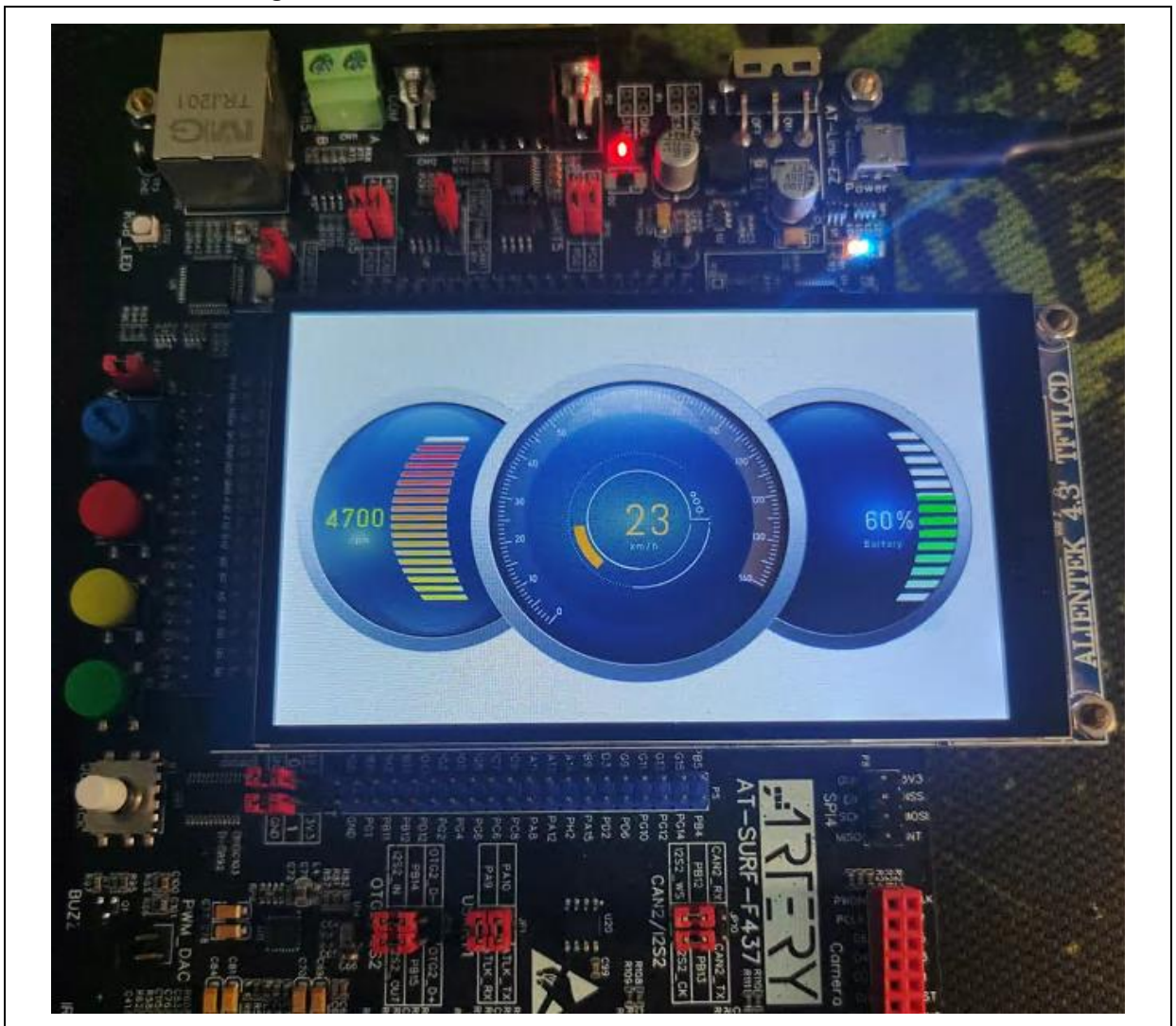
- 1) SourceCode
 - meter_demo

Note: All of projects are built based on Keil 5. For the need to run in other compiling environments, user can make simple adjustments according to `AT32xxx_Firmware_Library_V2.x.x\project\at_start_xxx\templates`.

1.3 Example case

- 1) Install 4.3' TFT LCD on AT-SURF-F437 evaluation board
- 2) Open “meter_demo” and download to the evaluation board. The “meter_demo” is located under `SC0093_SourceCode_V2.0.0\project\at_surf_f437\applications\meter_demo\mdk_v5`
- 3) Check the effect of Meter demo on the evaluation board
- 4) Video link: <https://b23.tv/C7Ml8Gd>

Figure 2. Meter demo demonstration on evaluation board



2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|------------|----------|-----------------|
| 2022.07.13 | 2.0.0 | Initial release |

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