SC0093

Sample Code

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 | AT32F435 series |
|----------------|-----------------|
| Floduct series | AT32F437 series |

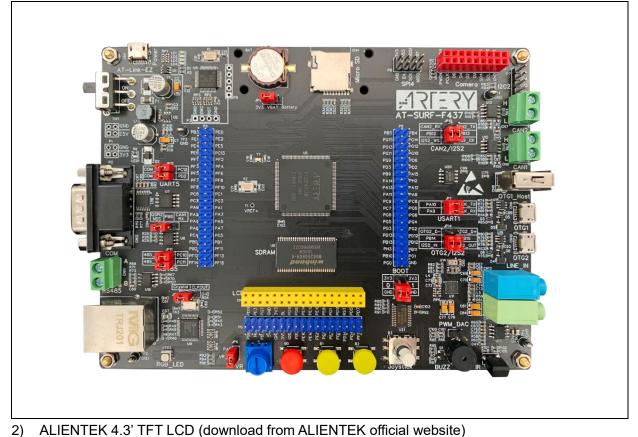
List of major peripherals used:

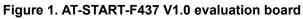
| Peripherals | XMC |
|-------------|------|
| | DMA |
| | TMR |
| | GPIO |

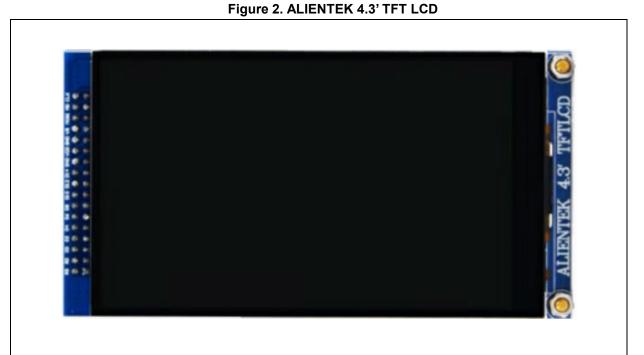
1 Quick start

1.1 Hardware resources

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







1.2 Software resources

1) SourceCode

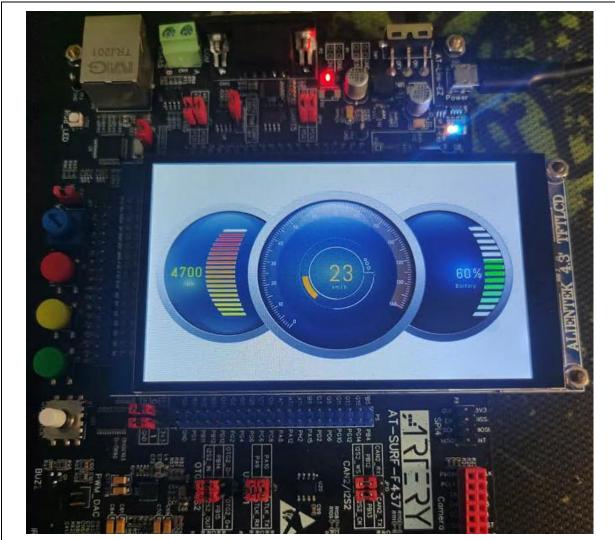
meter_demo

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: <u>https://b23.tv/C7MI8Gd</u>

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 |

IMPORTANT NOTICE – PLEASE READ CAREFULLY

Purchasers are solely responsible for the selection and use of ARTERY's products and services, and ARTERY assumes no liability whatsoever relating to the choice, selection or use of the ARTERY products and services described herein

No license, express or implied, to any intellectual property rights is granted under this document. If any part of this document deals with any third party products or services, it shall not be deemed a license granted by ARTERY for the use of such third party products or services, or any intellectual property contained therein, or considered as a warranty regarding the use in any manner of such third party products or services or any intellectual property contained therein.

Unless otherwise specified in ARTERY's terms and conditions of sale, ARTERY provides no warranties, express or implied, regarding the use and/or sale of ARTERY products, including but not limited to any implied warranties of merchantability, fitness for a particular purpose (and their equivalents under the laws of any jurisdiction), or infringement on any patent, copyright or other intellectual property right.

Purchasers hereby agree that ARTERY's products are not designed or authorized for use in: (A) any application with special requirements of safety such as life support and active implantable device, or system with functional safety requirements; (B) any aircraft application; (C) any aerospace application or environment; (D) any weapon application, and/or (E) or other uses where the failure of the device or product could result in personal injury, death, property damage. Purchasers' unauthorized use of them in the aforementioned applications, even if with a written notice, is solely at purchasers' risk, and Purchasers are solely responsible for meeting all legal and regulatory requirements in such use.

Resale of ARTERY products with provisions different from the statements and/or technical characteristics stated in this document shall immediately void any warranty grant by ARTERY for ARTERY's products or services described herein and shall not create or expand any liability of ARTERY in any manner whatsoever.

© 2022 Artery Technology -All rights reserved