

OLED 简介

应用：

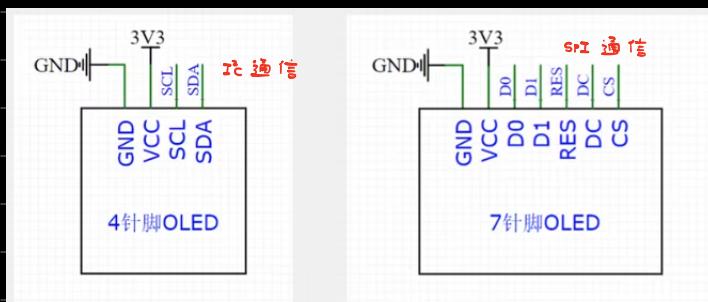
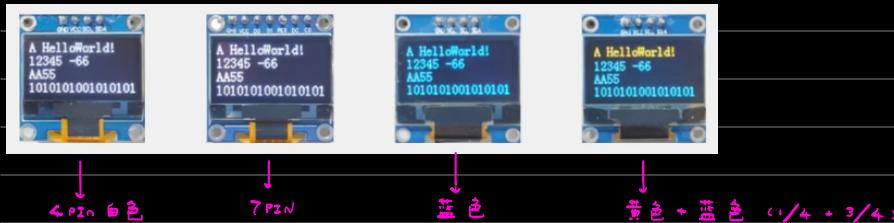
- ① char
- ② string
- ③ 12.3
- ④ -66
- ⑤ HEX 符号
- ⑥ 二进制
- ⑦ 中文
- ⑧ 图像

调试方法

1. 串口 → xcom 使用
2. 显示屏 → oled oled
3. Kiel 模式 → 单步、断点

OLED 简介

发光二极管 oled 3~5V, I^C 和 SPI 128×64 分辨率



函数	作用
OLED_Init();	初始化
OLED_Clear();	清屏
OLED_ShowChar(1, 1, 'A');	显示一个字符
OLED_ShowString(1, 3, "HelloWorld!");	显示字符串
OLED_ShowNum(2, 1, 12345, 5);	显示十进制数字
OLED_ShowSignedNum(2, 7, -66, 2);	显示有符号十进制数字
OLED_ShowHexNum(3, 1, 0xAA55, 4);	显示十六进制数字
OLED_ShowBinNum(4, 1, 0xAA55, 16);	显示二进制数字

4 * 16 点阵

showchar 起止点

showstring

注：oled 可使用 GPIO 供电

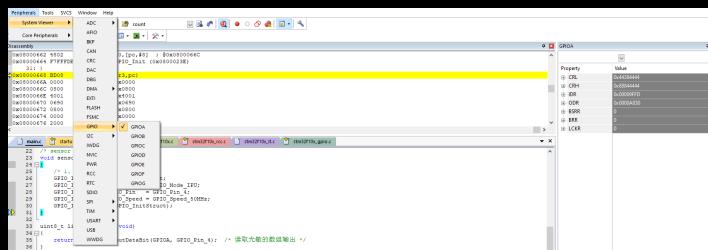
ST-LINK 使用方法

↑跳过 ↑反汇编 → 调用栈 →串口显示

The screenshot shows the Keil MDK-ARM software interface. The top bar features a toolbar with icons for file operations (New, Open, Save, Print, Exit), project management (Project Manager, Symbols, Variables, Watch, Registers, Stack, CPU, Memory, Bus, Pinout, Help), and debugging (Run, Stop, Break, Step Into, Step Over, Step Out, Run to Cursor, Set Breakpoint, Clear Breakpoints, Set Watchpoint, Clear Watchpoints, Set Condition, Clear Conditions, Set Register, Clear Registers, Set Stack, Clear Stack, Set Bus, Clear Bus, Set Pinout, Clear Pinout). Below the toolbar, several windows are open: 'Watch' (显示寄存器和变量值), 'Registers' (显示寄存器状态), 'Stack' (显示堆栈信息), 'CPU' (显示处理器状态), 'Memory' (显示内存映射), and 'Bus' (显示总线交互)。A pink arrow points from the '寄存器' (Registers) icon in the toolbar to the 'Registers' window. Another pink arrow points from the '变量值' (Variable Value) icon to the 'Watch' window. A third pink arrow points from the 'CPU' icon to the 'CPU' window.

代码流程：复位中断 → sysInit → main

时事



注：由此查看 peripheral 的值