

XMC 2Go Kit

2014英飞凌XMC 微控制器巡回研讨会



XMC 2Go Kit: 议题

我是谁？

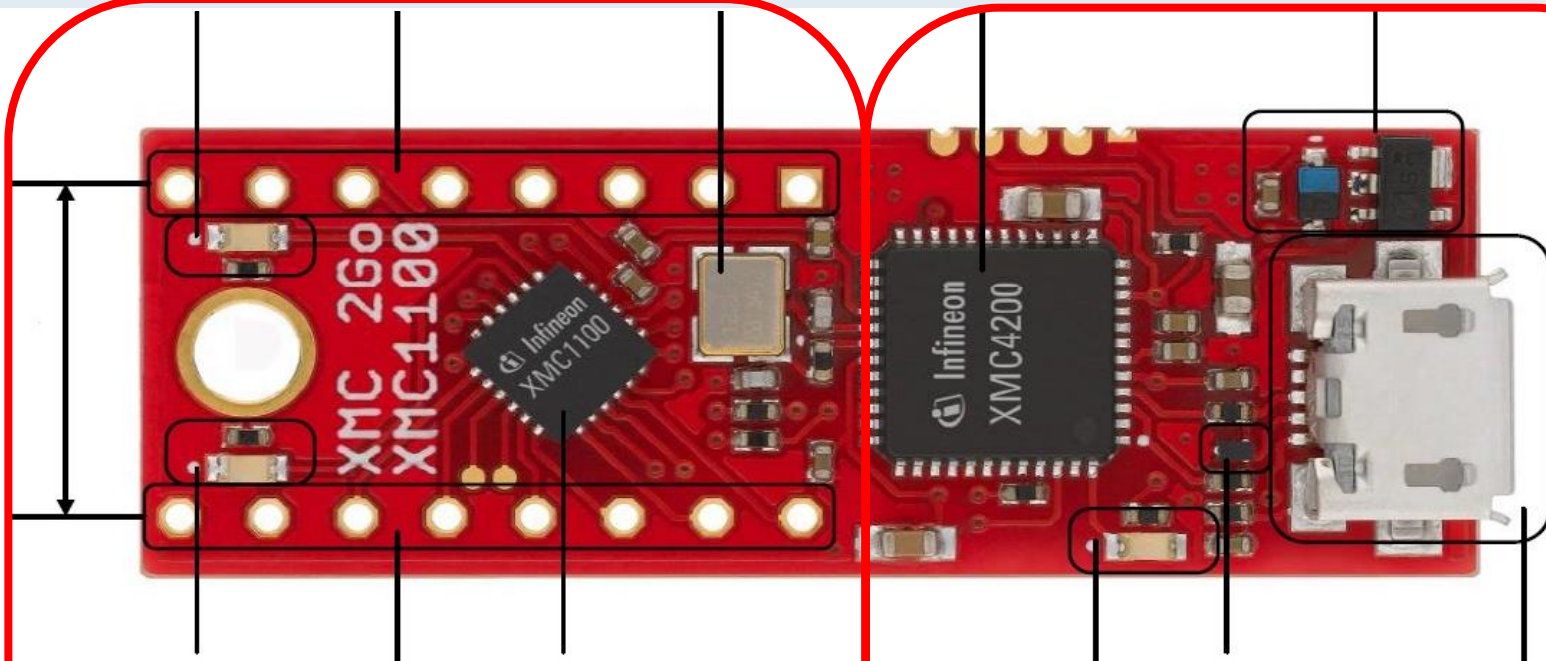
- 结构框图
- 功能特点
- 管脚连接



亲密接触：

- 项目导入编译
- **LED**闪烁
- **UART**通信

XMC 2Go Kit : 功能特点



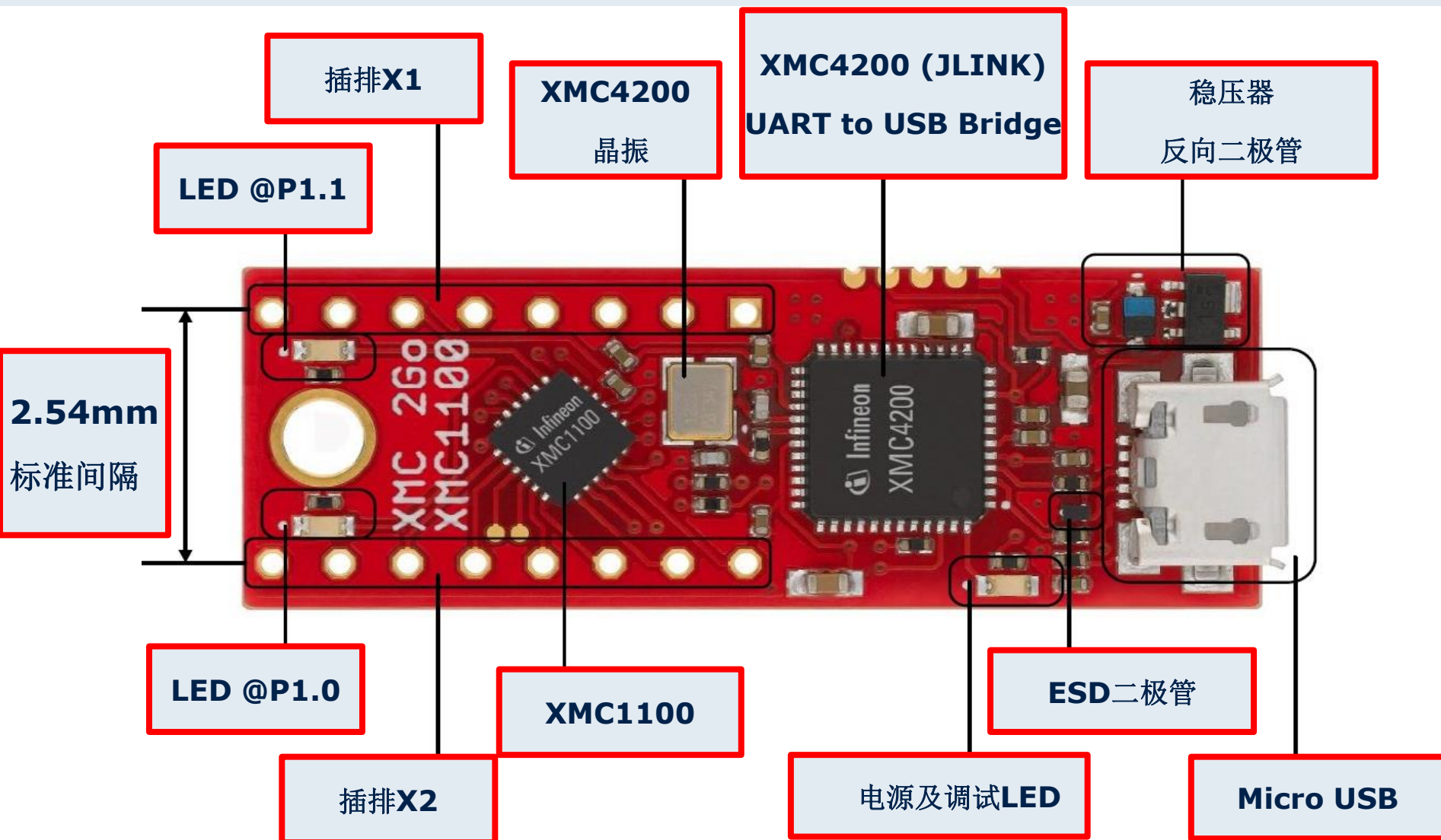
XMC1100 (4x4 mm)

- ARM Cortex™-M0
- Flash: 64K
- RAM: 16K
- 32M MCLK; 64M PCLK

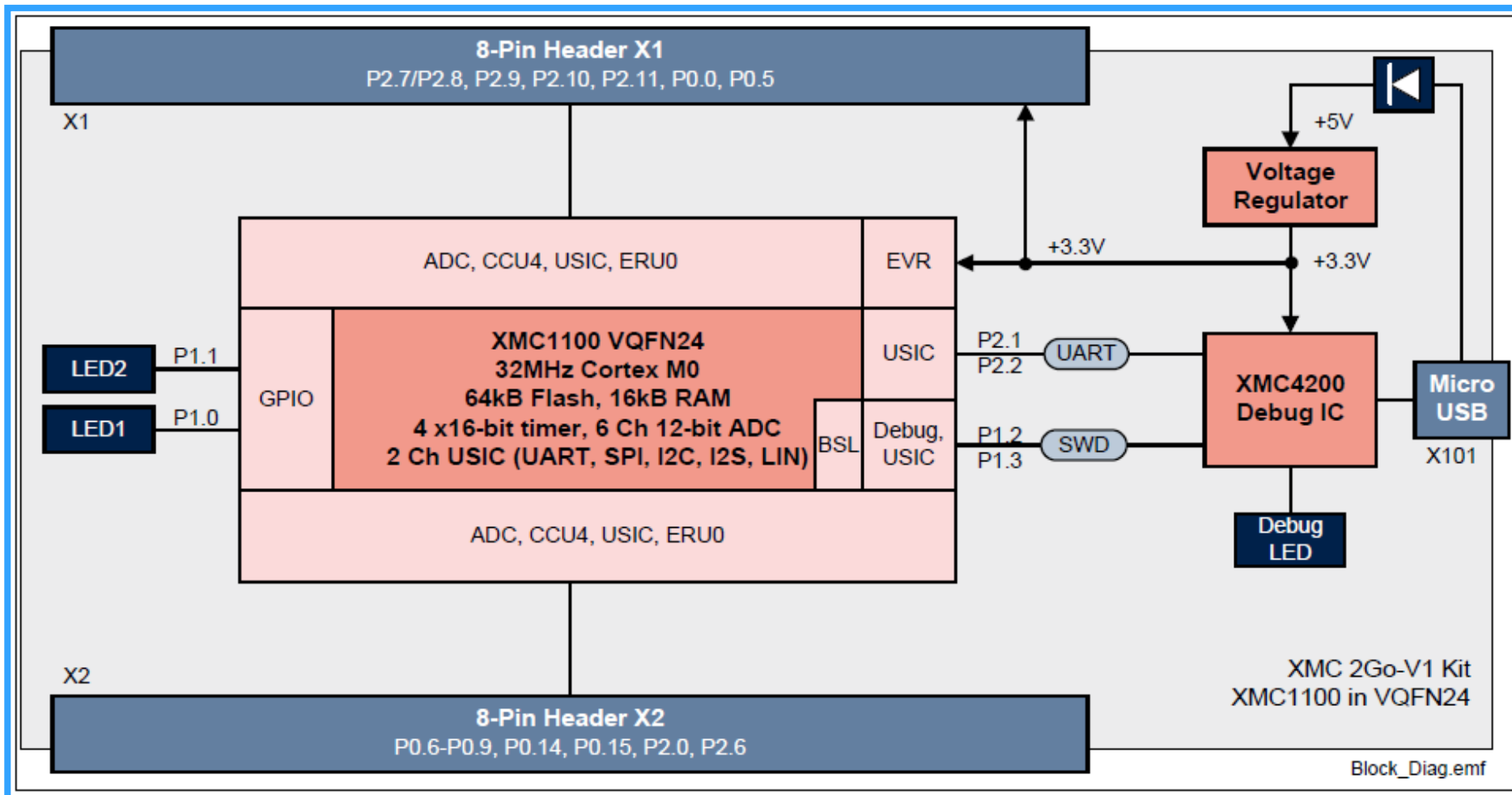
Jlink调试器

- SWD (ARM Standard)
- SPD (Infienon)
- UART-to-USB Bridge
(Virtual COM)

XMC 2Go Kit: 部件说明



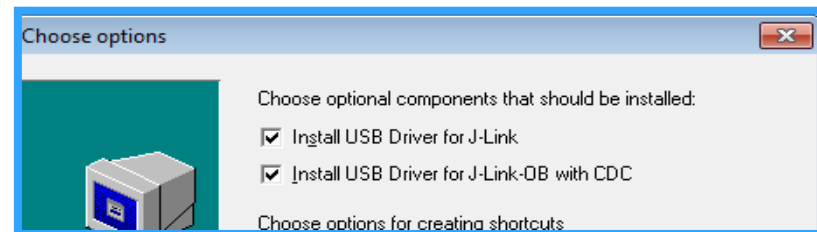
XMC 2Go Kit: 系统框图



XMC 2Go Kit : DAVE3 下载安装

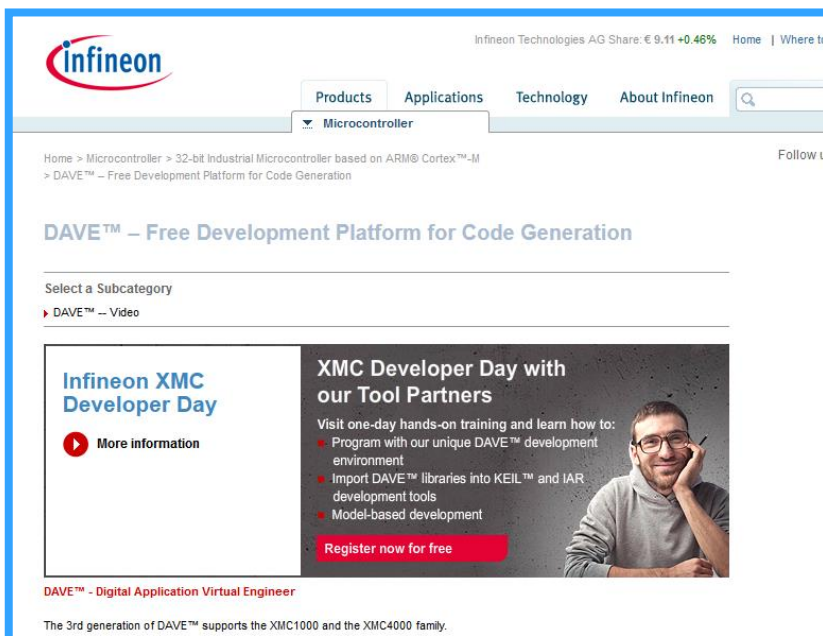


安装JLINK驱动时勾选以下选项



www.infineon.com/dave

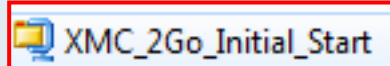
www.infineonic.org



XMC 2Go Kit : DAVE3项目导入



学习的最简单的途径： 导入已有的项目, 按自己的需求更改。



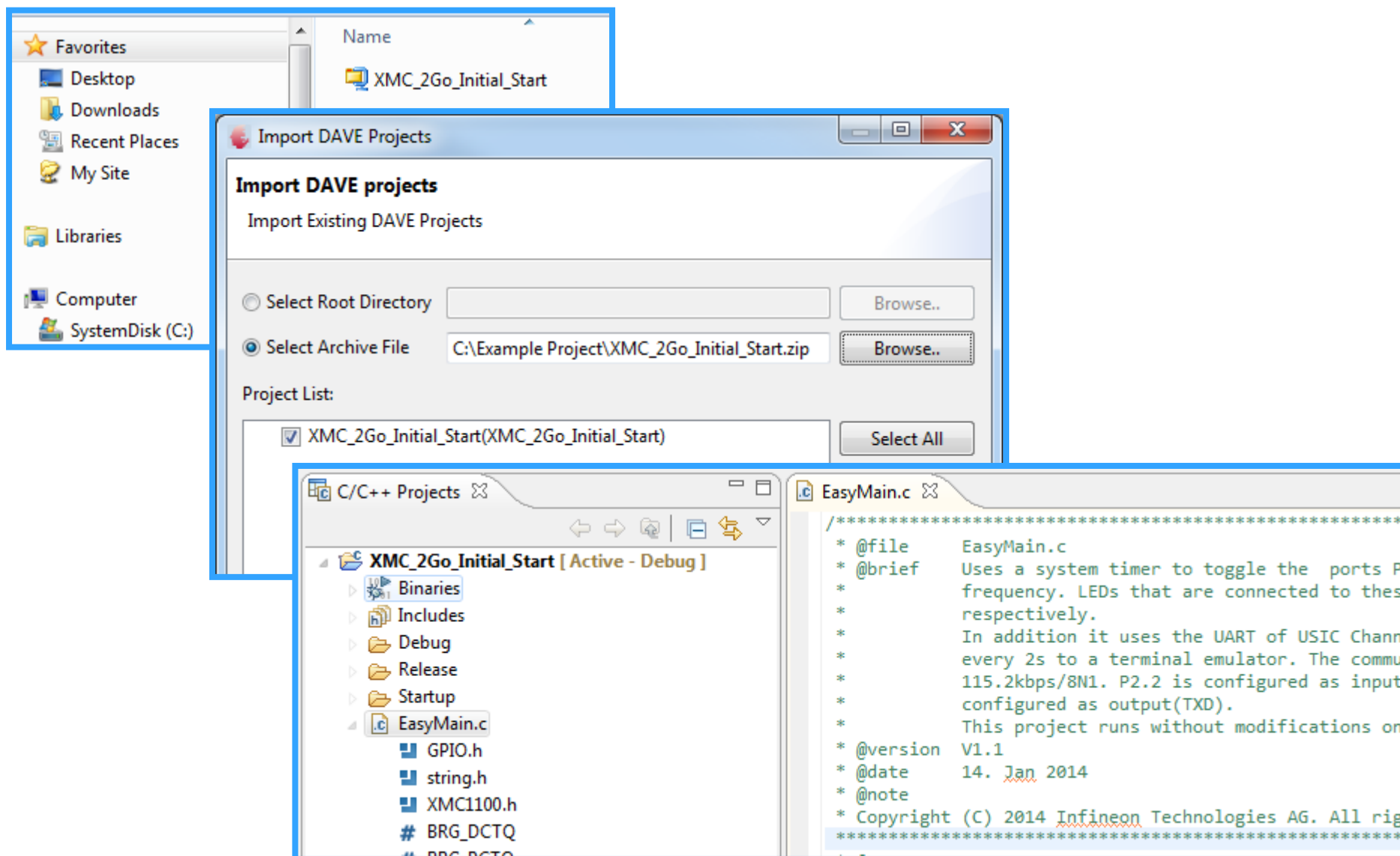
项目主要功能

1. **LED1, LED2** 按**200ms**的间隔交替闪烁;
2. **UART** 按**2秒**间隔发送数据;

The screenshot shows the DAVE IDE interface with the following steps highlighted:

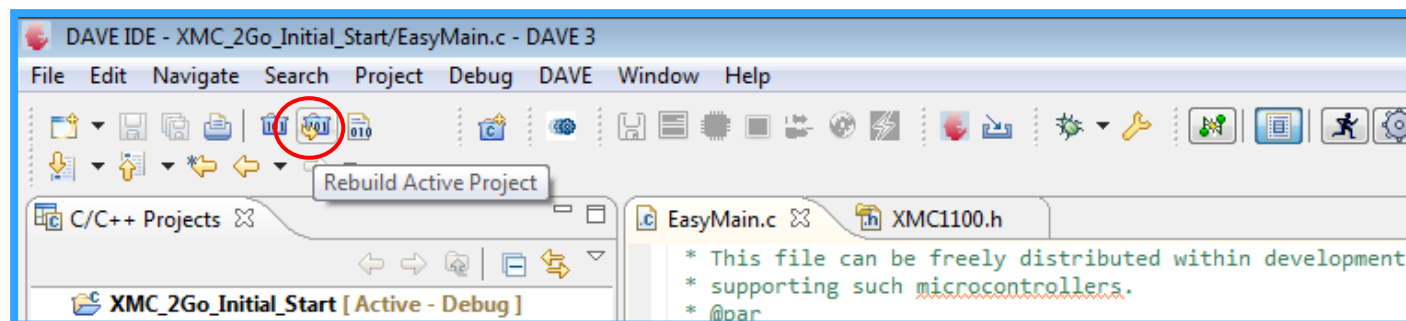
- Click **Import...** in the **File** menu.
- Click **Next >** in the **Import** dialog.
- Click on **DAVE Project** under the **Infineon** folder in the **Select** dialog.
- Click **Browse..** in the **Import DAVE Projects** dialog to select an archive file.

XMC 2Go Kit : DAVE3项目导入

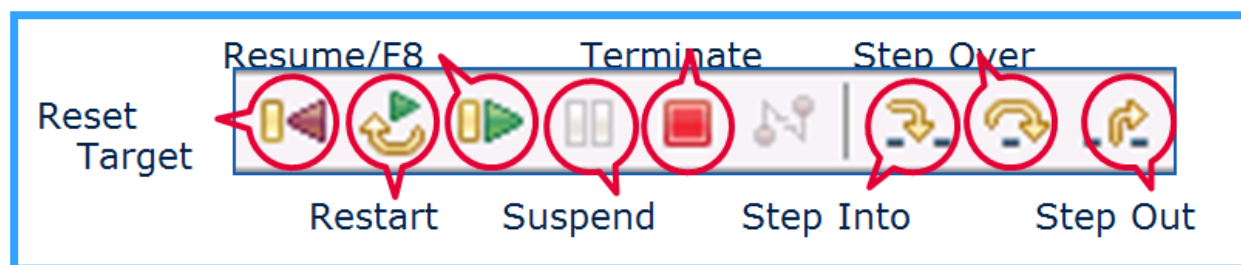


XMC 2Go Kit : DAVE3 编译调试

编译整个项目



下载及调试



XMC 2Go Kit : 更改LED闪烁频率

更改LED闪烁频率: **Systick** 每**100ms** 中断一次;

TICKS_LED_EVENT 定义为**2**, 即 **LED每200ms** 翻转一次;

更改此变量为期望的值。

重新编译后再次烧录调试。

```
// Ticks are generated every 100ms
#define TICKS_PER_SECOND 10UL
// Update LED status every 200ms
#define TICKS_LED_EVENT 2UL
// Update message 2s
#define TICKS_UART_EVENT 20UL
```



```
// Ticks are generated every 100ms
#define TICKS_PER_SECOND 10UL
// Update LED status every 400ms
#define TICKS_LED_EVENT 4UL
// Update message 2s
#define TICKS_UART_EVENT 20UL
```

XMC 2Go Kit :更改**UART**发送间隔

更改**UART**发送数据间隔:

TICKS_UART_EVENT 定义为**20**, 即 每**2S**发送数据一次;
更改此变量为期望的值。

串口设置: 波特率:**115200**;
数据位: **8**;
停止位: **1**;
校验位: 无



XMC 2Go Kit :更改UART发送数据

修改串口发送数据为期望的字符串。
如 'I LOVE XMC1000/4000'

重新编译后再次烧录调试。

或在串口调试工具中发送想要的字符串
(一次有效)

```
void SysTick_Handler(void)
{
    static uint32_t ticks_uart = 0;
    static uint32_t ticks_led = 0;
    static uint8_t message = 0;
    static const char *messages[] = {
        "Visit www.infineon.com/XMC\r\n",
        "Visit www.infineonforums.com\r\n\r\n"
    };
};
```

**2Go,
Enjoy...**





ENERGY EFFICIENCY MOBILITY SECURITY

Innovative semiconductor solutions for energy efficiency, mobility and security.

