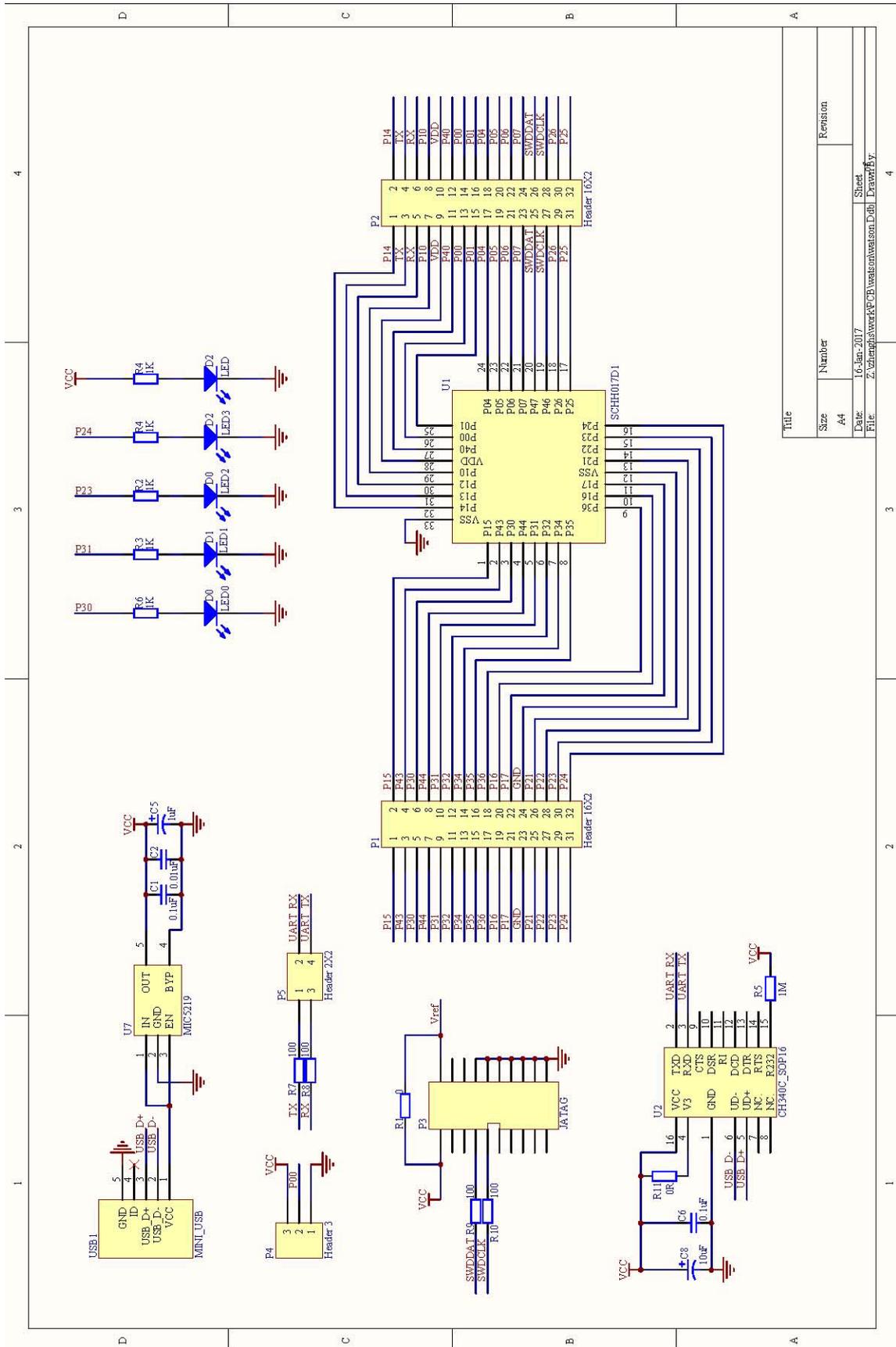


2. demo 板原理图



Title	
Size	Number
A4	
Date	16-Jan-2017
File	Z:\zhengshihw\kpcb\watsong\watsong.Ddb
Sheet	
Drawn by	

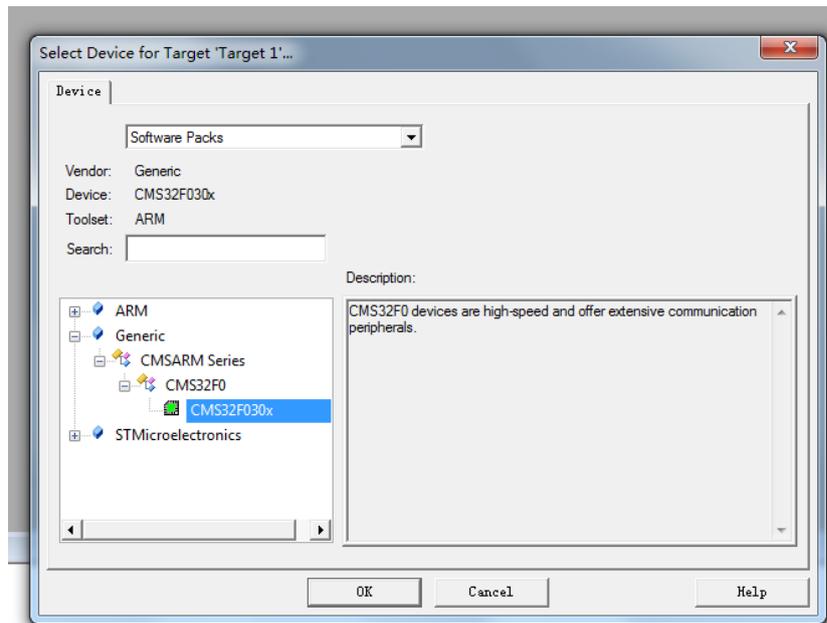
3. 安装器件包

名称	修改日期	类型	大小
demo	2017/1/16 10:41	文件夹	
CMS32F030X_技术手册_V0.1	2017/1/16 9:11	Adobe Acrobat ...	2,226 KB
Keil.CMS32F030x.1.0.4	2017/1/16 9:46	uVision Software...	2,564 KB
CMS32F030x_demo板使用说明	2017/1/16 11:17	Adobe Acrobat ...	149 KB

器件包安装文件

4. 新建工程

1) 选择 CMS32F030x 器件



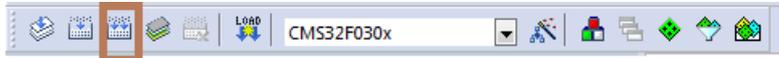
2) 选择启动文件和库函数

Software Component	Sel.	Variant	Version	Description
CMSIS	<input checked="" type="checkbox"/>			Cortex Microcontroller Software Interface Components
CMSIS Driver	<input checked="" type="checkbox"/>			Unified Device Drivers compliant to CMSIS-Driver Specifications
Compiler	<input checked="" type="checkbox"/>			ARM Compiler Software Extensions
Device	<input checked="" type="checkbox"/>			Startup_System_Setup
Startup	<input checked="" type="checkbox"/>		1.0.0	System Startup for CMS CMS32F0 Series
StdPeriph Drivers				
AD	<input type="checkbox"/>		1.0.1	AD control driver for CMS32F0
FMC	<input type="checkbox"/>		1.0.1	FMC control driver for CMS32F0
GPIO	<input checked="" type="checkbox"/>		1.0.1	GPIO control driver for CMS32F0
IIC	<input type="checkbox"/>		1.0.1	IIC control driver for CMS32F0
PWM	<input type="checkbox"/>		1.0.1	PWM control driver for CMS32F0
SPI	<input type="checkbox"/>		1.0.1	SPI control driver for CMS32F0
SYSCON	<input checked="" type="checkbox"/>		1.0.1	System control driver for CMS32F0
TIM	<input type="checkbox"/>		1.0.1	TIM control driver for CMS32F0
UART	<input type="checkbox"/>		1.0.1	UART control driver for CMS32F0
WDT	<input type="checkbox"/>		1.0.1	WDT control driver for CMS32F0
File System		MDK-Pro	6.8.0	File Access on various storage devices
Graphics		MDK-Pro	5.32.2	User Interface on graphical LCD displays
Network		MDK-Pro	7.2.0	IPv4/IPv6 Networking using Ethernet or Serial protocols
USB		MDK-Pro	6.8.0	USB Communication with various device classes

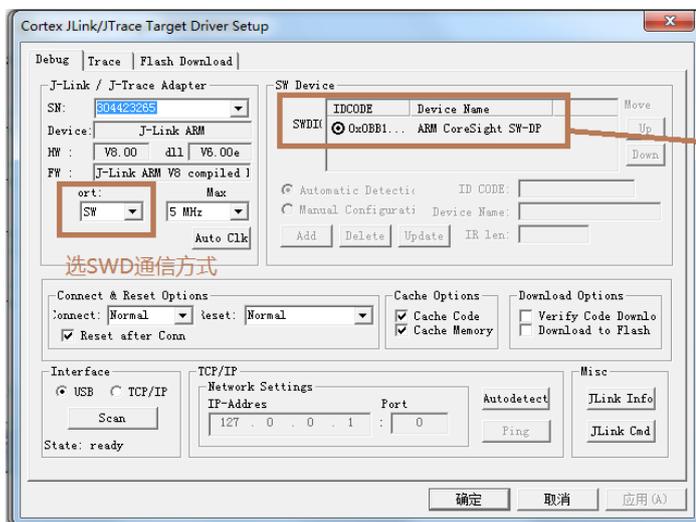
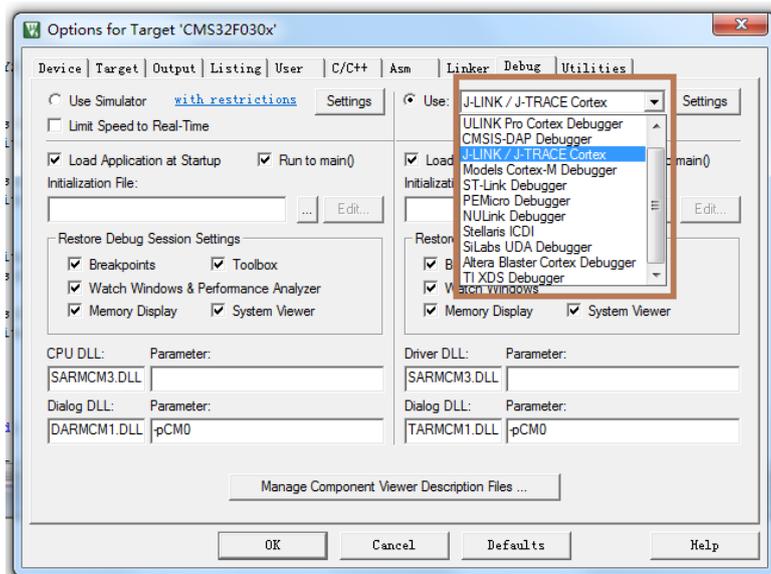
5. 打开 demo 工程

以 GPIO 为例，把 Projects\CMS32F030x_StdPeriph_Examples\GPIO\下所有文件复制到 Projects\CMS32F030x_StdPeriph_Templates 下，打开 demo 目录下的 Project.uvprojx-快捷方式或 Projects\CMS32F030x_StdPeriph_Templates\MDK-ARM\Project.uvprojx。

6. 编译代码

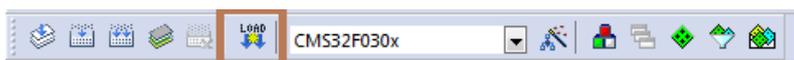


7. 设置调试器



连接上demo板后显示芯片型号

8. 下载程序



9. 调试程序



10. UART demo 程序演示

demo 板自带 USB 转串口芯片，可以非常方便地进地串口调试。

- 1) 按照 5 步骤打开 UART demo 工程，编译并下载到 demo 板。
- 2) 跳帽短接 demo 板上的 RX,TX 排针，见实物图。
- 3) 电脑安装串口调试工具，安装 CH340 驱动，USB 线连接到 demo 板。
- 4) 打开串口通信工具，按照下图步骤操作，可实现简单的收发功能。(demo 程序把接收到的数据全部发出来)

