







환경 구축

2010.02.08

RIDE7

- Raisonance에서 나온 RIDE7을 사용하면 무료로 compiler 툴을 사용할 수 있다.
- http://www.mcu-raisonance.com/mcu_downloads.html?BN=BN2&TOOLS=Ride7

Name	Release date	Limitations	File
Ride7 ☆☆☆ version 7.26.09.0351	Jan, 15 2010	Limitations may apply for some supported families depending on the RKit and hardware tools used.	<u>Ride7_7.26.09.0351.exe</u>  Release_notes_Ride7.txt
RKit-ARM ☆☆☆ version 1.22.09.0254	Sep, 15 2009	- Unlimited compiler - Unlimited debug with RLink-PRO - Debug limited to 32 KB with RLink-STD	<u>RKit-ARM_BN55.exe</u>  Release_notes_RKit-ARM.txt
patch RKit-ARM ☆☆☆ version 1.22.09.0254	Oct, 13 2009	This patch corrects ARM7_pgm.exe with NXP LPC devices	 <u>ARM7_pgm_1.22.09.0254_patch.zip</u>  Release_notes_ARM7_pgm_1.22.09.0254_patch.txt
patch2 RKit-ARM ☆☆☆ version 1.22.09.0254	Nov, 10 2009	This patch corrects PDKGEN peripherals view on STM32 derivatives.	 <u>STM32xxx_Periph_1.22.09.0254_patch.zip</u>  Release_notes_STM32xxx_Periph_1.22.09.0254_patch.txt

Ride7 설치 과정

- Ride7_7.26.09.0351.exe 설치
- RKit-ARM_BN55.exe 설치
- STM32xxx_Periph_1.22.09.0254_patch.zip 압축해제
 - STM32103 high density 일부 Bug Fix
 - AFIO 일부 Bug Fix
 - 압축 해제 후 \STM32xxx_Periph_1.22.09.0254_patch\ARM 부분을 C:\Program Files\Raisonance\Ride\sim\ARM 부분으로 복사

IAR Kickstart edition








- <http://www.iar.com/website1/1.0.1.0/675/1/>
- 위에 가면 kickstart edition을 다운 받기 위해 정보를 입력하면 이메일로 라이선스 키를 보내줍니다.
- 그리고 설치할 때 그 값을 복사하여 설치하면 됩니다.

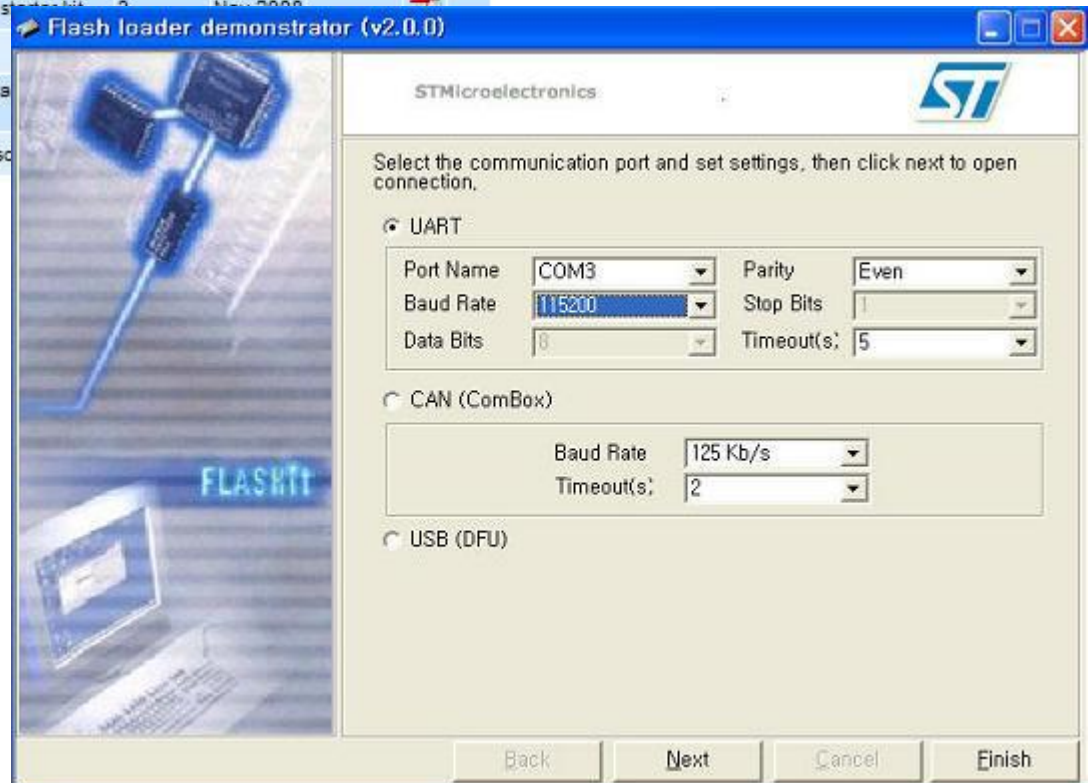
Processor or core	30-day evaluation edition	Kickstart edition	Datasheet	User guides
8051	v7.51	v7.51 (4K)	Download	Download
ARM	v5.40	v5.40 (32K)	Download	Download
AVR	v5.30	v5.30 (4K)		
AVR32	v3.20A	v3.20A (32K)		
HCS12	v3.11			
ColdFire	v1.22	v1.22 (16/32K)		



STM Flash Loader

- <http://www.st.com/mcu/devicedocs-STM32F103RB-110.html>

User Manual					
Reference	Description	Version	Date	Size	File File
UM0424	STM32F10xxx USB-FS-Device development kit	7	May-2009		 
UM0685	CEC (consumer electronic control) C library using the STM32F101xx, STM32F102xx and STM32F103xx microcontrollers	1	Mar-2009		 
UM0462	STM32F101xx, STM32F102xx and STM32F103xx Flash loader demonstrator	5	Mar-2009		 
UM0486	STM3210B-MCKIT Motor Control starter kit	2	Nov-2008		
UM0585	STM32F10xxx DSP Library				
UM0412	DfuSe USB Device Firmware Upgrade STMicorelectronics Extension				
UM0435	STM3210B-EVAL demonstration software				



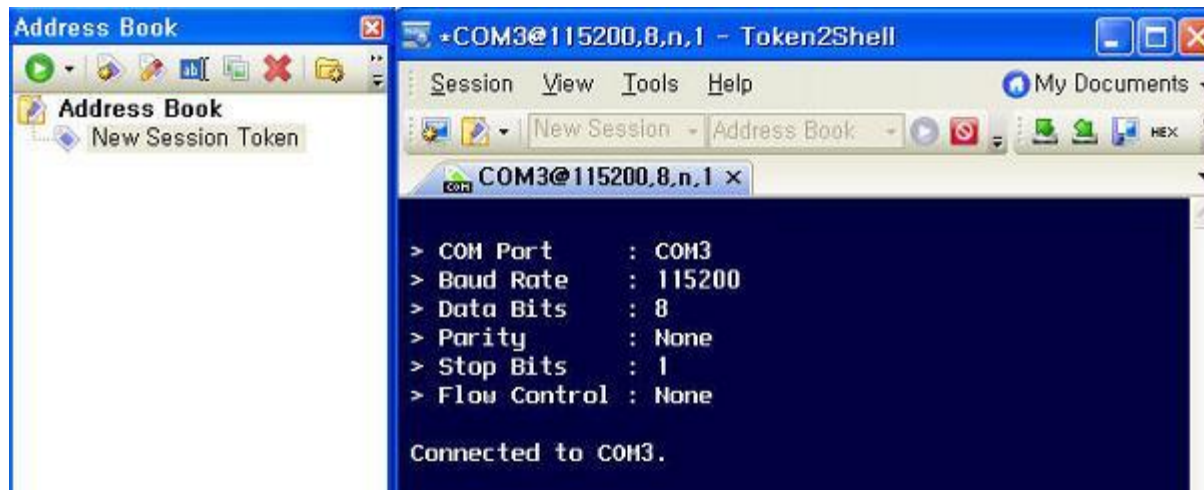
Token2Shell Terminal

- <http://www.choung.net/Token2Shell/download>

Token2Shell
Version
5.2.0
Supported Platforms
Windows 2000/XP/Vista







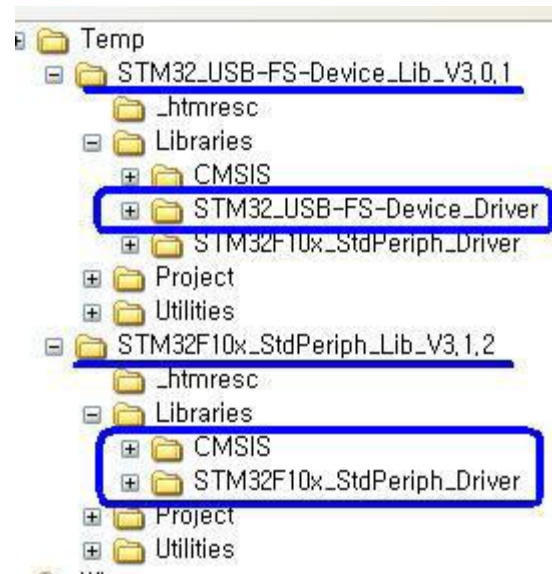

FILE NAME
Token2Shell.desktop.v520.setup.exe
SIZE
2.41 MB
DOWNLOAD SITES
* Choung Networks (USA, Official Site)
<http://choung.net/download/Token2Shell.desktop.v520.setup.exe> 



Library Download

- <http://www.st.com/mcu/devicedocs-STM32F103RB-110.html>

Firmware						
Reference	Description	Version	Date	Size	File File	
STM32F10x_StdPeriph_Lib	ARM-based 32-bit MCU STM32F10xxx standard peripheral library	3.1.2	Sep-2009			
STM32F10x_FW_Archive	Archive for legacy STM32F10xxx Firmware Library V2.0.3 and all related Firmware packages	2.0.3	Jul-2009			
STM32_USB-FS-Device_Lib	ARM-based 32-bit MCU STM32F10xxx USB Device Full Speed Library	3.0.1	May-2009			
STM32F10x_CEC_Lib	CEC (consumer electronic control) C library using the STM32F101xx, STM32F102xx and	2.0.0	May-			



Library 수정

Temp\STM32F10x_St...

D:\WkPjt,Src\WmStory3,0\Libraries\CMSIS\Core\CM3\stm32f10x.h

```
44 application
45 */
46
47 #if !defined (
48 /* #define S
49 /* #define S
50 /* #define S
51 #define S
52 #endif
53 /* Tip: To
```

D:\WkPjt,Src\WmStory3,0\Libraries\CMSIS\Core\CM3\stm32f10x.h

```
44 application
45 */
46
47 #if !defined (STM32F10X_LD) && !defined (STM3
48 /* #define STM32F10X_LD */ /*!< STM32F10X
49 #define STM32F10X_MD /*!< STM32F10X MD:
50 /* #define STM32F10X_HD */ /*!< STM32F10X
51 /* #define STM32F10X_CL */ /*!< STM32F10X
52
53 Tip: To avoid modifying this file each time you ne
can define the HSE value in your toolchain co
*/
81 #define EXT_CLOCK_SOURCE_12M
82 #if !defined HSE_Value
83 #ifdef STM32F10X_CL
84 #define HSE_Value ((uint32_t)25000000) /*!< Valu
85 #else
86 #ifdef EXT_CLOCK_SOURCE_12M
87 #define HSE_Value ((uint32_t)12000000) /*!< Valu
88 #else
89 #define HSE_Value ((uint32_t)8000000) /*!< Value
90 #endif
91 #endif /* STM32F10X_CL */
```

Temp\STM32F10x_St...

D:\WkPjt,Src\WmStory3,0\Libraries\CMSIS\Core\CM3\system_stm32f10x.c

```
88
89
/* P
RCC-
RCC-
else
/*
RCC-
RCC-
RCC-
endif
```

D:\WkPjt,Src\WmStory3,0\Libraries\CMSIS\Core\CM3\system_stm32f10x.c

```
883 #else
884 /* PLL configuration: PLLCLK = HSE * 9 = 72 MHz */
885 RCC->CFGR &= (uint32_t)((uint32_t)~(RCC_CFGR_PLLSRC | RCC_CFGR_PLL
886 RCC_CFGR_PLLMULL));
887 #ifdef EXT_CLOCK_SOURCE_12M
888 RCC->CFGR |= (uint32_t)(RCC_CFGR_PLLSRC_HSE | RCC_CFGR_PLLMULL6);
889 #else
890 RCC->CFGR |= (uint32_t)(RCC_CFGR_PLLSRC_HSE | RCC_CFGR_PLLMULL9);
891 #endif
892 #endif /* STM32F10X_CL */
```


Error 사항 대처 - File Open error [Pe005]

- Fatal Error[Pe005]: could not open source file "usb_conf.h"



Error 사항 대처 - "assert_param" Error[Li005]

- USE_STDPERIPH_DRIVER 없이 빌드를 했을 경우에 아래와 같은 error를 막나는 경우가 있다.
 - Error[Li005]: no definition for "assert_param" [referenced from C:\Wk\Pjt\STM32_Pooh\Project\Custom_HID\Debug\Obj\

```
#ifdef USE_FULL_ASSERT
#define assert_param(expr)
    ((expr) ? (void)0 : assert_failed((uint8_t *)__FILE__, __LINE__))
void assert_failed(uint8_t* file, uint32_t line);
#else
#define assert_param(expr) ((void)0)
#endif /* USE_FULL_ASSERT */
```

Error 사항 대처 - Warning [Pa082]

- Warning[Pa082]: undefined behavior: the order of volatile accesses is undefined in this statement

```
static portTASK_FUNCTION( vSuicidalTask, pvParameters ) {  
    volatile portLONG l1; volatile portLONG l2;  
    l1 = 2; l2 = 89; l2 *= l1;  
}
```

- volatile:** "언제든지 값이 변할 수 있다"

