AM1808 Mango1808 Wince 6.0 이미지 Write 방법

Document History

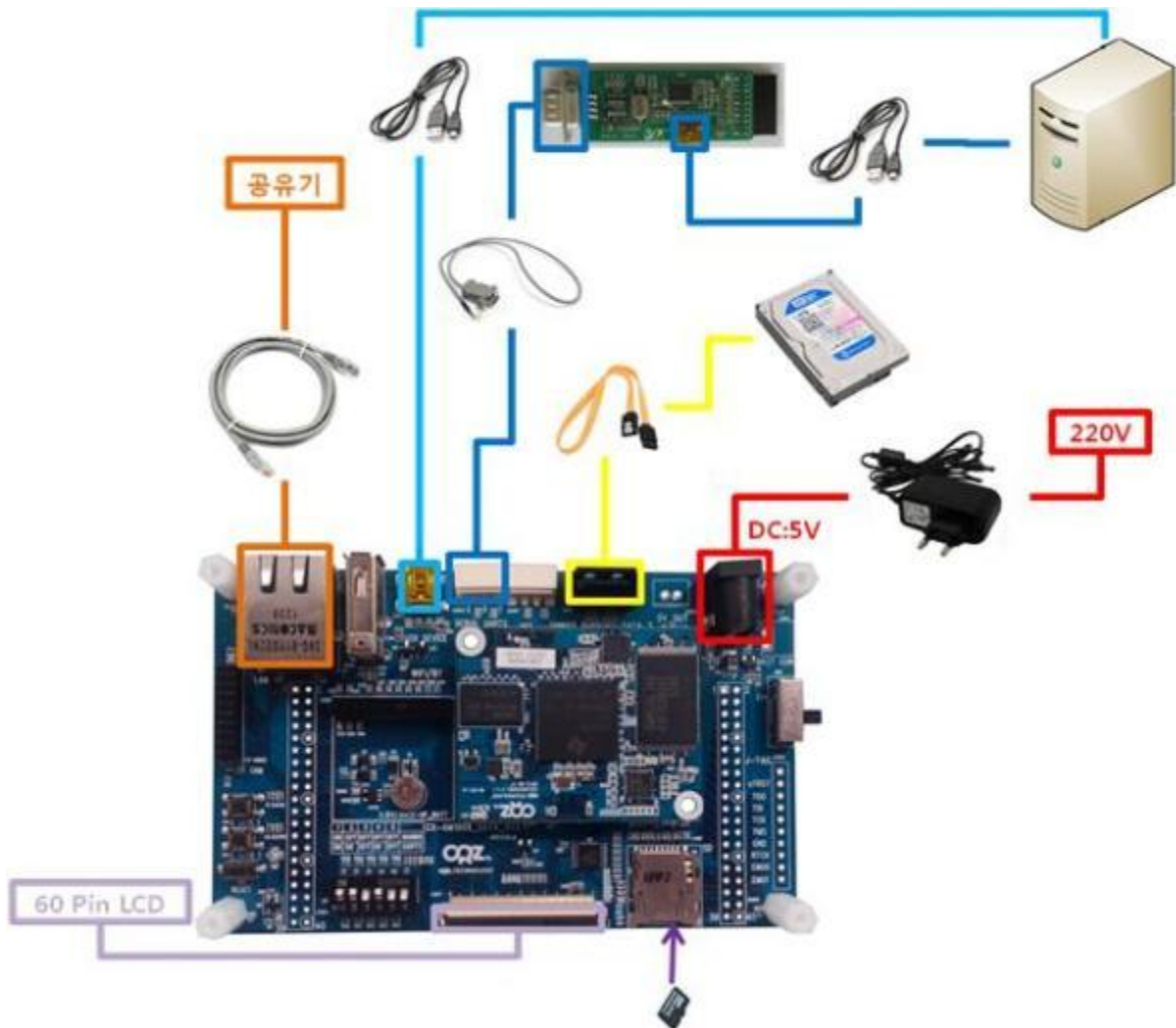| Revision	Date	Change note

목차

1. AM1808 Mango1808 Wince 6.0 이미지 Write 방법

1.1. Connections and ready for download

1.1.1.MANGO1808 전원 및 Cable 연결 방법

1.1.2.다운로드 및 준비

http://crztech.iptime.org:8080/Release/mango1808/wince/

에서 최신 이미지와 소스를 다운로드 받습니다.

"Mango1808-Wince6-20130612.zip"을 다운로드 합니다.

압축을 풀면 아래와 같은 파일이 있습니다.

00. AM1808 Mango1808 W...	599KB	PDF 파일	2013-06-13 오후 ...
OMAPL13X_TI_V1.zip	4,104KB	ALZip ZIP File	2013-06-09 오후 ...
OMAPL138_AM18X.zip	26,233KB	ALZip ZIP File	2013-06-12 오후 ...

"OMAPL138_AM18X.zip" 압축 풀어줍니다.

 OMAPL138_AM18X

아래와 같이 구성되어 있습니다.

이름 ▲	크기	종류	수정한 날짜
CATALOG		파일 폴더	2014-04-09 오후 …
FILES		파일 폴더	2014-04-09 오후 …
lib		파일 폴더	2014-04-09 오후 …
SRC		파일 폴더	2014-04-09 오후 …
target		파일 폴더	2014-04-09 오후 …
Build.dat	324KB	DAT 파일	2013-06-12 오후 …
Build.log	324KB	텍스트 문서	2013-06-12 오후 …
Build.wrn	22KB	WRN 파일	2013-06-12 오후 …
cebasecesysgen.bat	1KB	MS-DOS 일괄 파일	2011-07-01 오후 …
dirs	1KB	파일	2011-07-01 오후 …
OMAPL138_AM18X.bat	3KB	MS-DOS 일괄 파일	2013-06-04 오후 …
OMAPL138_AM18X_TI_D…	1KB	BIF 파일	2012-08-17 오후 …
retail.bif	1KB	BIF 파일	2013-06-12 오후 …
sources.cmn	6KB	CMN 파일	2011-07-01 오후 …

"Mango1808-Wince6-20130612_image.zip"을 다운로드 합니다.

압축을 풀면 아래와 같은 파일이 있습니다

EBOOTNANDFLASH.bin	148KB	BIN 파일	2013-06-12 오후 …
EBOOTNANDFLASH.nb0	256KB	NB0 파일	2013-06-12 오후 …
NK.bin	26,080KB	BIN 파일	2013-06-12 오후 …
NK.nb0	32,768KB	NB0 파일	2013-06-12 오후 …

Mango1808-Wince6-20130612_image폴더에서

EBOOTNANDFLASH.nb0을 OMAPL138_AM18X\SRC\BOOT\TOOLS\bin으로 복사합니다.

sfh_OMAP-L138.exe를 다운로드 합니다.

🖼️ sfh_OMAP-L138.exe   09-Apr-2014 06:56   342k

다운로드 한 sfh_OMAP-L138.exe를 OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩bin으로 복사합니다.
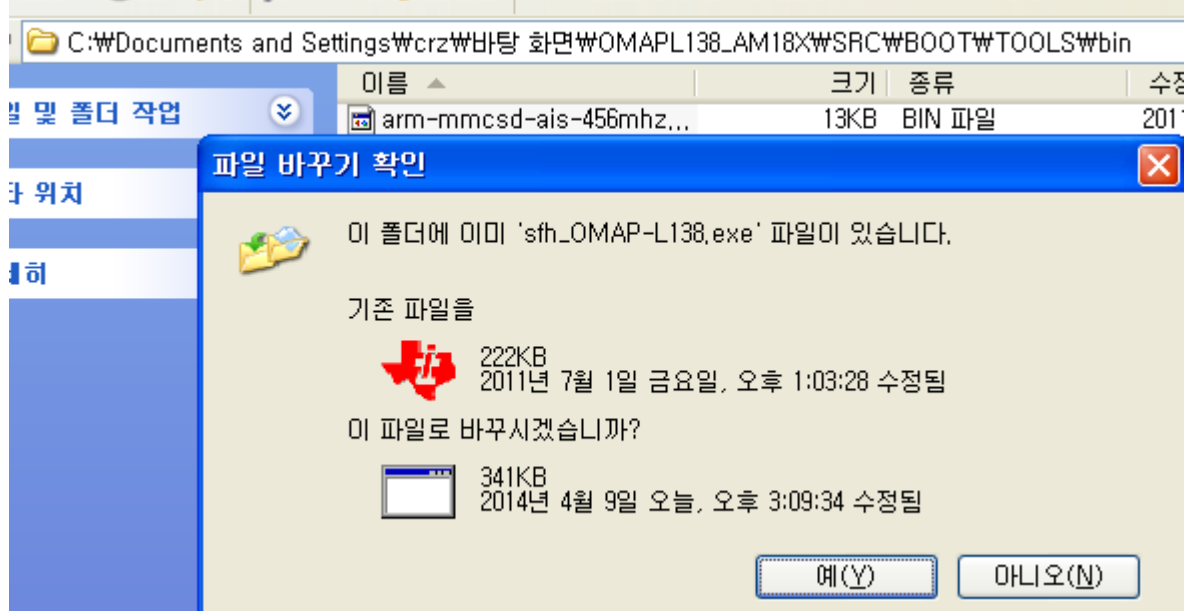
🖼️ ubl_MANGO1808_NAND.bin   09-Apr-2014 07:43   13k

다운로드 한 ubl_MANGO1808_NAND.bind을 OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩bin으로 복사합니다.

Command 창 실행

cd <경로>₩OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩bin
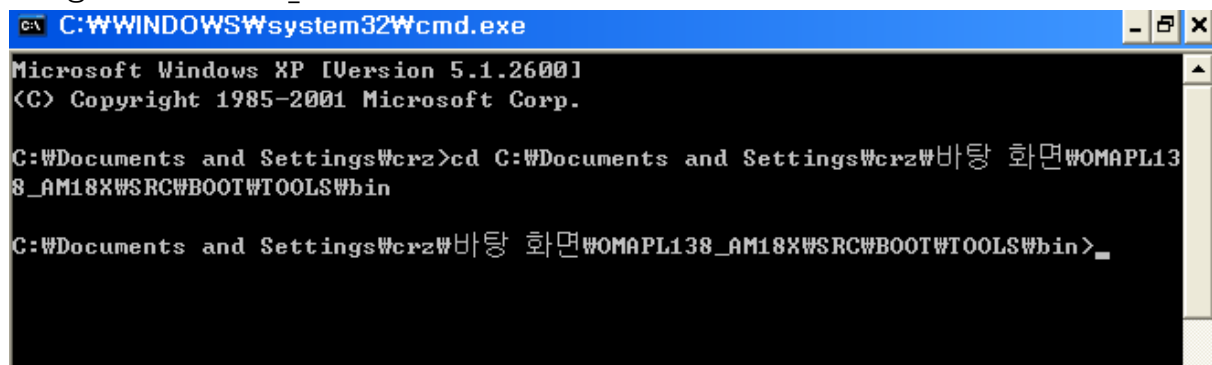
UART2 Mode
Boot SW 1, 2, 4 ON, 나머지 Off

1.2. NAND erase 및 Eboot 이미지 NAND Flash Write하기
1.2.1.NAND erase

아래에서 COM1 <<이 부분은 장치관리자에서 확인합니다.

아래와 같이 입력합니다.

```
sfh_OMAP-L138.exe -erase -targetType MANGO1808 -flashType NAND -p COM1
```

실행결과

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\crz\바탕 화면\OMAPL138_AM18X\SRC\BOOT\TOOLS\bin>
sfh_OMAP-L138.exe -erase -targetType MANGO1808 -flashType NAND -p COM1
-----------------------------------------------------
    TI Serial Flasher Host Program for OMAP-L138
    (C) 2012, Texas Instruments, Inc.
    Ver. 1.67
-----------------------------------------------------



      [TYPE] Global erase
    [TARGET] MANGO1808
    [DEVICE] NAND
    [NAND Block] 1

Attempting to connect to device COM1...
Press any key to end this program at any time.

(AIS Parse): Read magic word 0x41504954.
(AIS Parse): Waiting for BOOTME... (power on or reset target now)
```

"sfh_OMAP-L138.exe -erase -targetType MANGO1808 -flashType NAND -p COM1 "입력 시 에러가 발생 시 본 문서 1.4.1.dotNet Framework lnitaialization Error 부분을 참조바랍니다.

RESET키를 누릅니다.

실행결과

```
Press any key to end this program at any time.


(AIS Parse): Read magic word 0x41504954.
(AIS Parse): Waiting for BOOTME... (power on or reset target now)
(AIS Parse): BOOTME received!
(AIS Parse): Performing Start-Word Sync...
(AIS Parse): Performing Ping Opcode Sync...
(AIS Parse): Processing command 0: 0x58535901.
(AIS Parse): Performing Opcode Sync...
(AIS Parse): Loading section...
(AIS Parse): Loaded 14376-Byte section to address 0x80000000.
(AIS Parse): Processing command 1: 0x58535901.
(AIS Parse): Performing Opcode Sync...
(AIS Parse): Loading section...
(AIS Parse): Loaded 1320-Byte section to address 0x80003828.
(AIS Parse): Processing command 2: 0x58535906.
(AIS Parse): Performing Opcode Sync...
(AIS Parse): Performing jump and close...
(AIS Parse): AIS complete. Jump to address 0x80000000.
(AIS Parse): Waiting for DONE...
(AIS Parse): Boot completed successfully.


Waiting for SFT on the OMAP-L138...


Erasing flash
 100% [ ???????????????????????????????????????????????????????????????? ]
                            Erase complete



Operation completed successfully.
```

1.2.2. Eboot 이미지 NAND Flash에 Write하기

아래와 같이 입력합니다.

```
sfh_OMAP-L138.exe -flash -flashType NAND -targetType MANGO1808 -v -p COM1 -appStartAddr
0xc7f60000 -appLoadAddr 0xc7f60000 ubl_MANGO1808_NAND.bin EBOOTNANDFLASH.nb0
```

실행결과

```
Microsoft Windows XP [Version 5.1.2600]
```

C:₩Documents and Settings₩crz₩바탕 화면₩OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩bin>
sfh_OMAP-L138.exe -flash -flashType NAND -targetType MANGO1808 -v -p COM1 -appStartAdd
r 0xc7f60000 -appLoadAddr 0xc7f60000 ubl_MANGO1808_NAND.bin EBOOTNANDFLASH.nb0

    TI Serial Flasher Host Program for OMAP-L138
    (C) 2012, Texas Instruments, Inc.
    Ver. 1.67

      [TYPE] UBL and application image
       [UBL] ubl_MANGO1808_NAND.bin
 [APP IMAGE] EBOOTNANDFLASH.nb0
    [TARGET] MANGO1808
    [DEVICE] NAND
    [NAND Block] 1

Attempting to connect to device COM1...
Press any key to end this program at any time.

(AIS Parse): Read magic word 0x41504954.
(AIS Parse): Waiting for BOOTME... (power on or reset target now)

Power on & reset

(AIS Parse): BOOTME received!
(AIS Parse): Performing Start-Word Sync...
(AIS Parse): Performing Ping Opcode Sync...
(AIS Parse): Processing command 0: 0x58535901.
(AIS Parse): Performing Opcode Sync...
(AIS Parse): Loading section...
(AIS Parse): Loaded 14376-Byte section to address 0x80000000.
(AIS Parse): Processing command 1: 0x58535901.
(AIS Parse): Performing Opcode Sync...
(AIS Parse): Loading section...
(AIS Parse): Loaded 1320-Byte section to address 0x80003828.

(AIS Parse): Processing command 2: 0x58535906.

(AIS Parse): Performing Opcode Sync...

(AIS Parse): Performing jump and close...

(AIS Parse): AIS complete. Jump to address 0x80000000.

(AIS Parse): Waiting for DONE...

(AIS Parse): Boot completed successfully.

Waiting for SFT on the OMAP-L138...

      Target: BOOTUBL

      Target: DONE

Flashing UBL ubl_MANGO1808_NAND.bin (13260 bytes) at 0x00000000

      Target: SENDIMG

      Target: BEGIN

100% [??]

              Image data transmitted over UART.

        Target: DONE

100% [??]

             UBL programming complete

        Target: CurrBlockNum =0x00000001

        Target: Writing image data to Block 0x00000001, Page 0x00000000

        Target: Writing image data to Block 0x00000001, Page 0x00000001

        Target: Writing image data to Block 0x00000001, Page 0x00000002

        Target: Writing image data to Block 0x00000001, Page 0x00000003

        Target: Writing image data to Block 0x00000001, Page 0x00000004

        Target: Writing image data to Block 0x00000001, Page 0x00000005

        Target: Writing image data to Block 0x00000001, Page 0x00000006

        Target: Writing image data to Block 0x00000001, Page 0x00000007

        Target: SENDING

        Target: DONE

Flashing application EBOOTNANDFLASH.nb0 (262144 bytes)

      Target: SENDIMG

      Target: BEGIN

100% [???]

             Image data transmitted over UART.

```
        Target:     DONE
100% [ ???????????????????????????????????????????????????????????? ]
                    Application programming complete


        Target: Number of blocks needed for header and data: 0x0x00000003
        Target: Attempting to start in block number 0x0x00000006.
        Target: Magicnum: 0x0x55424CBB
        Target: Entrypoint: 0x0xC7F60000
        Target: Numpage: 0x0x00000080
        Target: Writing header and image data to Block 0x00000006, Page 0x00000
00
        Target:     DONE
        Target:     DONE


Operation completed successfully.
```

1.3. Wince NK.bin 이미지 NAND Flash Write하기

NAND Mode
Boot SW 1, 5ON 나머지 OFF
Reset

　터미널 프로그램을 연결합니다.(Putty, Tera Term등 사용하시는 프로그램을 연결)
　Baud rate : 115200

```
   MANGO1808 initialization passed!
Booting TI User Boot Loader
        UBL Version: 1.65
        UBL Flashtype: NAND
Starting NAND Copy...
Valid magicnum, 0x55424CBB, found in block 0x00000006.
   DONE
?1ping to entry point at 0xC7F60000.
Microsoft Windows CE Bootloader Common Library Version 1.4 Built Jun 12 2013 14:51:31
INFO:OALLogSetZones: dpCurSettings.ulZoneMask: 0xb
Microsoft Windows CE EBOOT 1.0 for AM1808 OMAPL138/AM18X EVM. Built Jun  7 2013 at
13:25:53
BSP version 01.10.00, SOC version 01.10.00
   CODE : 0xC7F60000 -> 0xC7FA0000
```

```
   DATA : 0xC7FA0000 -> 0xC7FE0000
  STACK : 0xC7FE0000 -> 0xC8000000
Enabled OAL Log Zones :   ERROR, WARN, INFO,
Platform Init done
System ready!
Preparing for download...
Predownload...
WARN: Invalid boot configuration found (using defaults)
INFO: MAC address: 04:32:f4:fd:e9:21
WARN: Invalid BSP_ARGS data found (using defaults)
WARN: Unable to get hardware entropy
BBBBBBBlight On


Hit space to enter configuration menu   1


---------------------------------------------------------------------------------

 Main Menu

---------------------------------------------------------------------------------

 [1] Show Current Settings
 [2] Boot Settings
 [3] Network Settings
 [5] Video Settings
 [6] Save Settings
 [7] Peripheral Tests
 [R] Reset Settings To Default Values
 [0] Exit and Continue


 Selection:
```

   Hit space to enter configuration menu <<3초간에 space bar를 누를 경우 configuration menu를 실행합니다.

   1을 입력하여 Show Current Settings 를 확인합니다.

```
 ---------------------------------------------------------------------------------

  Main Menu

 ---------------------------------------------------------------------------------

  [1] Show Current Settings
  [2] Boot Settings
  [3] Network Settings
  [5] Video Settings
```

```
    [6] Save Settings
    [7] Peripheral Tests
    [R] Reset Settings To Default Values
    [0] Exit and Continue


    Selection:
```

```
Selection: 1


Boot:
    Boot delay .............. 3
    Boot device ............. NK from SD
    Debug device ............ EMAC
    Clean Boot .............. No
    Write RAM NK to flash: .. No
    Device ID String ........ (not specified)
    Allow DSP to Boot: ...... No


 Network:
    KITL state .............. disabled
    KITL mode ............... interrupt
    DHCP ................... enabled
    MAC address ............. 04:32:f4:fd:e9:21
    IP address .............. 0.0.0.0
    IP mask ................. 0.0.0.0
    IP router ............... 0.0.0.0
    VMINI ................... disabled
```

 [3] Network Settings 선택
[3] KITL interrupt/poll mode 선택 후 > y
[8] Enable/disable VMINI 선택 후 > y
[1] Show Current Settings 선택 (변경된 것을 확인합니다.)

```
  Selection: 3
  -----------------------------------------------------------------------------
  Network Settings
  -----------------------------------------------------------------------------
  [1] Show Current Settings
  [2] Enable/disable KITL
```

```
    [3] KITL interrupt/poll mode

    [4] Enable/disable DHCP

    [5] Set IP address

    [6] Set IP mask

    [7] Set default router

    [8] Enable/disable VMINI

    [0] Exit and Continue


  Selection:
```
```
  Selection: 3

    Set KITL to poll mode [y/-]: y

    KITL set to pool mode
```
```
  Selection: 8

    Enable VMINI (actually disabled) [y/-]: y

    VMINI enabled
```
```
  Selection: 1


    Network:

      KITL state .............. disabled

      KITL mode ............... poll

      DHCP ................... enabled

      MAC address ............. 04:32:f4:fd:e9:21

      IP address .............. 0.0.0.0

      IP mask ................. 0.0.0.0

      IP router ............... 0.0.0.0

      VMINI ................... enabled
```

[0] Exit and Continue 선택하여 Main Menu로 돌아옵니다.

```
 ---------------------------------------------------------------------------------

 Network Settings

 ---------------------------------------------------------------------------------

 [1] Show Current Settings

 [2] Enable/disable KITL

 [3] KITL interrupt/poll mode

 [4] Enable/disable DHCP

 [5] Set IP address

 [6] Set IP mask

 [7] Set default router

 [8] Enable/disable VMINI
```

```
  [0] Exit and Continue


  Selection: 0
```

[2] Boot Settings 선택

[2] Select Boot Device 선택

[3] NK from NAND flash 선택

[6] Write Download RAM NK to Flash 선택 후 > y

[1] Show Current Settings 선택 (변경된 것을 확인합니다.)

```
Selection: 2
--------------------------------------------------------------------------------
 Boot Settings
--------------------------------------------------------------------------------
 [1] Show Current Settings
 [2] Select Boot Device
 [3] Select Boot Delay
 [4] Select Debug Device
 [5] Force Clean Boot
 [6] Write Download RAM NK to Flash
 [7] Set Device ID String
 [8] Allow DSP to Boot
 [0] Exit and Continue


 Selection:
--------------------------------------------------------------------------------
 Select Boot Device
--------------------------------------------------------------------------------
 [1] EMAC
 [2] NK from SD
 [3] NK from NAND flash
 [0] Exit and Continue


 Selection (actual NK from SD):
[3] NK from NAND flash
--------------------------------------------------------------------------------
 Boot Settings
--------------------------------------------------------------------------------
 [1] Show Current Settings
```

```
    [2] Select Boot Device

    [3] Select Boot Delay

    [4] Select Debug Device

    [5] Force Clean Boot

    [6] Write Download RAM NK to Flash

    [7] Set Device ID String

    [8] Allow DSP to Boot

    [0] Exit and Continue


    Selection: 6

    Enable Write Download RAM NK to Flash (actually disabled) [y/-]: y

    Write Download RAM NK to Flash enabled
```

```
Boot:

    Boot delay .............. 3

    Boot device ............. NK from NAND flash

    Debug device ............ EMAC

    Clean Boot .............. No

    Write RAM NK to flash: .. Yes

    Device ID String ........ (not specified)

    Allow DSP to Boot: ...... No
```

[0] Exit and Continue 선택하여 Main Menu로 돌아옵니다.
  [6] Save Settings 선택 후 > y

```
 -------------------------------------------------------------------------------

 Main Menu

 -------------------------------------------------------------------------------

 [1] Show Current Settings

 [2] Boot Settings

 [3] Network Settings

 [5] Video Settings

 [6] Save Settings

 [7] Peripheral Tests

 [R] Reset Settings To Default Values

 [0] Exit and Continue


 Selection:6

Do you want save current settings [-/y]? y

FMD: ReadID (Mfg=0xec, Dev=0xda)

 Current settings has been saved
```
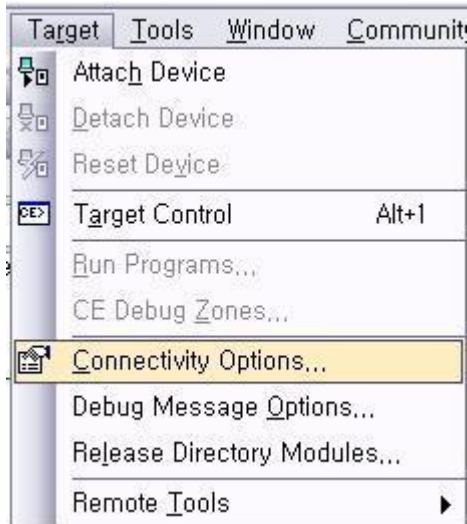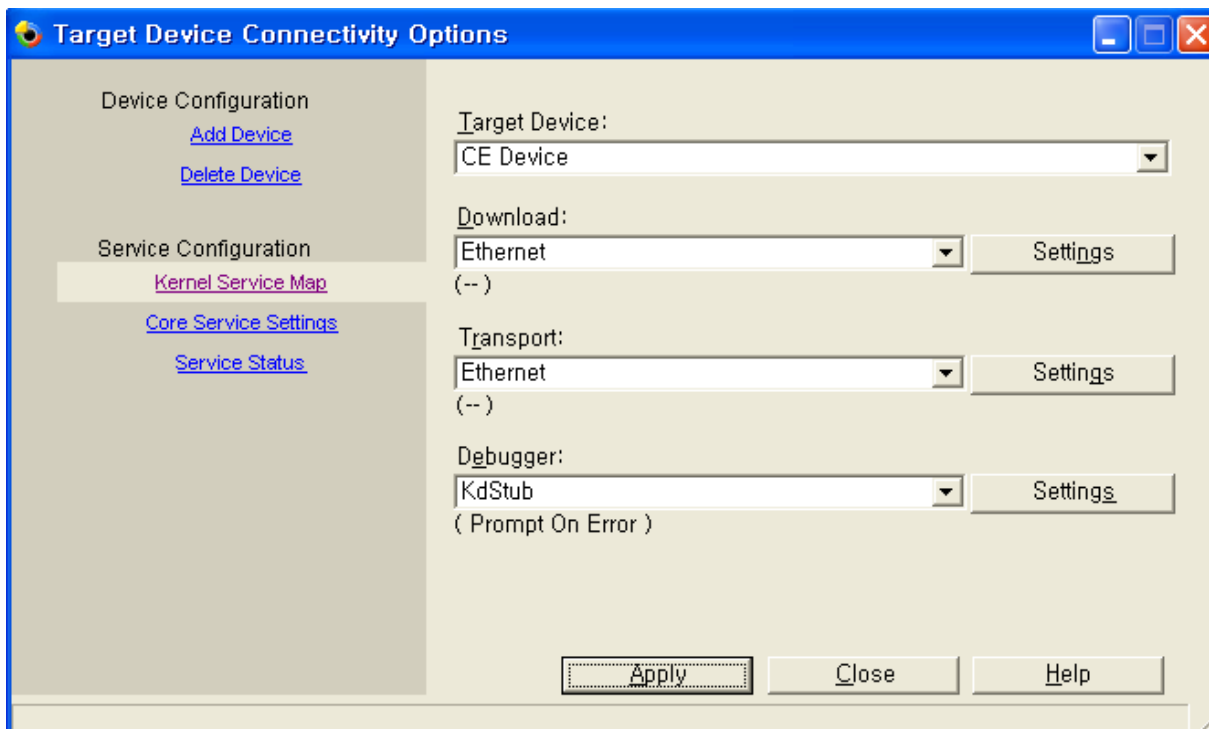
Visual studio 2005 **(build가 완료되어 있어야 함)** 에서
Target > Connectivity Options... 선택합니다.

Target Device Connectivity Options 에서 Settings클릭합니다.

Ethernet Download Settings창이 열립니다.

터미널 창으로 돌아옵니다.

[2] Boot Settings 선택

[2] Select Boot Device 선택

[1] EMAC 선택

[0] Exit and Continue 선택하여 Main Menu로 돌아옵니다.

[0] Exit and Continue   선택

```
--------------------------------------------------------------------------------
 Boot Settings
--------------------------------------------------------------------------------
 [1] Show Current Settings
 [2] Select Boot Device
 [3] Select Boot Delay
 [4] Select Debug Device
 [5] Force Clean Boot
 [6] Write Download RAM NK to Flash
 [7] Set Device ID String
 [8] Allow DSP to Boot
 [0] Exit and Continue


 Selection:
--------------------------------------------------------------------------------
 Select Boot Device
--------------------------------------------------------------------------------
 [1] EMAC
 [2] NK from SD
 [3] NK from NAND flash
 [0] Exit and Continue


 Selection (actual NK from SD):
```

[1] EMAC

Boot:

  Boot delay 3

  Boot device .... EMAC

  Debug device .... EMAC

  Clean Boot .... No

  Write RAM NK to flash: .. Yes

  Device ID String .... (not specified)

  Allow DSP to Boot: ...... No

아래와 같은 로그 확인 가능

```
Selection: 0
BBBBBBBlight On
Device ID set to AM1808-59681
MAC addr is 4:32:f4:fd:e9:21.
OMAPEmacInit: f_pEmacRxDesc = 0x1e20000
OMAPEmacInit: f_pEmacTxDesc = 0x1e21000
OMAPEmacInit: waiting for active phy...
OMAPEmacInit: f_pMdioRegs->m_Alive = 0x3
INFO: Boot device uses MAC 04:32:f4:fd:e9:21
InitDHCP():: Calling ProcessDHCP()
ProcessDHCP()::DHCP_INIT
Got Response from DHCP server, IP address: 192.168.57.4

ProcessDHCP()::DHCP IP Address Resolved as 192.168.57.4, netmask: 255.255.255.0
Lease time: 86400 seconds
Got Response from DHCP server, IP address: 192.168.57.4
No ARP response in 2 seconds, assuming ownership of 192.168.57.4
+EbootSendBootmeAndWaitForTftp
Sent BOOTME to 255.255.255.255
Sent BOOTME to 255.255.255.255
```
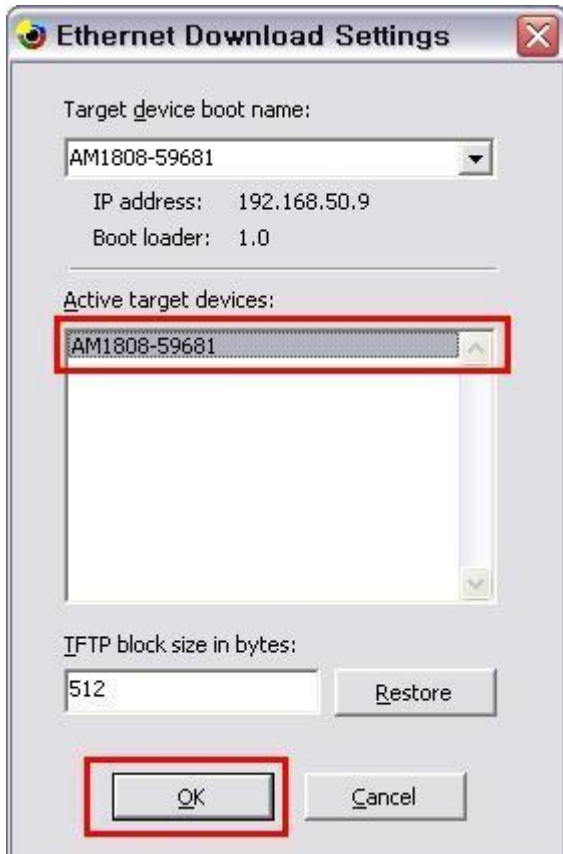
위와 같이 연결이 되면
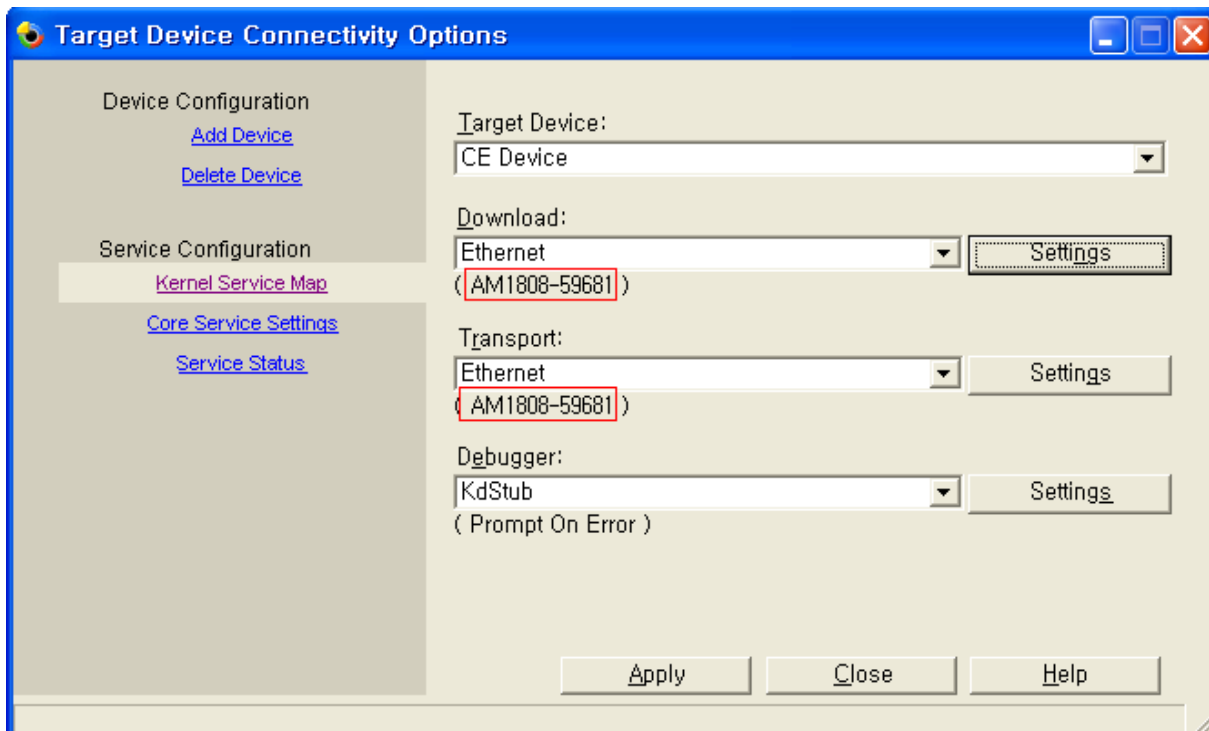
Visual studio 2005 **(build가 완료되어 있어야 함)** 에서
Ethernet Download Settings창에서
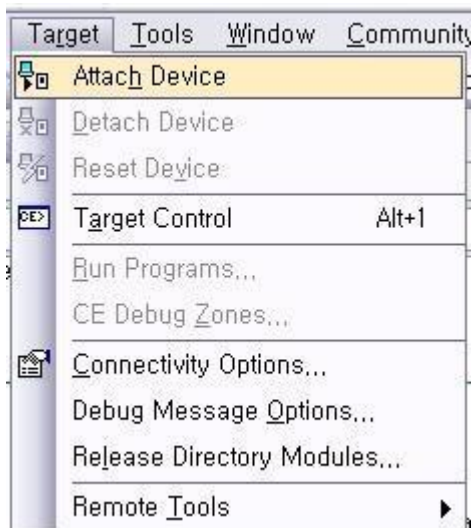 Active target devices: 아래 AM1808-59681 생성되면 클릭 후 ok 버튼 선택

OK를 클릭합니다.

Target Device Connectivity Options에서 아래와 같이 변경된 것을 확인 할 수 있습니다.
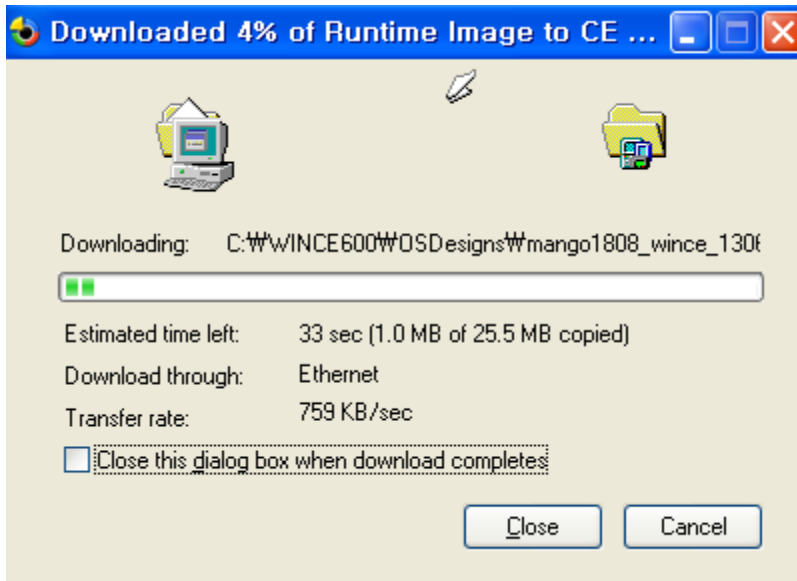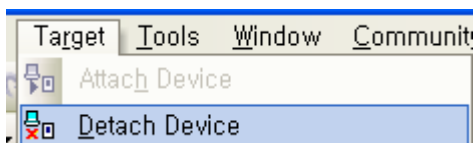
Apply를 클릭합니다.

Target > Attach Device 선택합니다.

다운로드 완료 후 Close 버튼 마우스로 선택

Target > Detach Device 선택

실행결과

```
Packet has the following data:
    boot.bin[NULL]octet[NULL]
TFTP packet could have 1 name/value pairs
Locked Down Link 1
Src IP 192.168.57.4 Port 03D4    Dest IP 192.168.57.3 Port 0C71
Default TFTP block size set to: 512 bytes
There were no options detected in the TFTP
EthDown::TFTPD_OPEN::boot.bin
-EbootSendBootmeAndWaitForTftp
EbootInitEtherTransport Done


BL_IMAGE_TYPE_BIN


OEMMultiBINNotify: Download BIN file information:
------------------------------------------------------------
[0]: Address=0x80000000   Length=0x01a6592c   Base=0xc0000000
------------------------------------------------------------
DOWNLOAD_TYPE_RAM
```

TFTP: Desktop losing ACK, block number = 32968, Ack again

rom_offset=0x0.

ImageStart = 0x80000000, ImageLength = 0x1A6592C, LaunchAddr = 0x80001000

Completed file(s):

----

[0]: Address=0x80000000   Length=0x1A6592C   Name="" Target=RAM

ROMHDR at Address 80000044h

Image Start ....: 0x80000000

Image Size ....: 0x01a6592c

Image Launch Addr .: 0x80001000

Image ROMHDR ......: 0xc1a6334c

Boot Device/Type ..: 2 / 1

Got EDBG_CMD_JUMPIMG

Got EDBG_CMD_CONFIG, flags:0x00000000

ADEO: Launch Windows Embedded CE by jumping to 0xc0001000...

Windows CE Kernel for ARM (Thumb Enabled) Built on Sep 25 2009 at 11:04:23

OEMInit: init.c built on Jun   7 2013 at 13:26:07.

BSP version 01.10.00, SOC version 01.10.00

INFO:OALLogSetZones: dpCurSettings.ulZoneMask: 0xf

WARN: Updating local copy of BSP_ARGS

Intr Init done...

Timer Init done...

+OALDumpClocks

Clock Configuration :

   Reference Clock 0 ..   24000000 Hz

      PLL0 .... 456000000 Hz

      PLL0:SYSCLK1 ..... 456000000 Hz (DSP Subsystem)

      PLL0:SYSCLK2   228000000   Hz
(UART,EDMA,SPI,MMC/SD,VPIF,LCDC,SATA,uPP,USB2.0,HPI,PRU)

      PLL0:SYSCLK3 .....   24000000 Hz (EMIFA)

      PLL0:SYSCLK4 ..... 114000000 Hz (INTC, SYSCFG, GPIO, PSC, I2C1, USB1.1, EMAC/MDIO, GPIO)

      PLL0:SYSCLK5 ..... 152000000 Hz (reserved)

      PLL0:SYSCLK6 ..... 456000000 Hz (ARM Subsystem)

      PLL0:SYSCLK7 .....   50666666 Hz (EMAC)

      PLL0:AUXCLK ......   24000000 Hz (I2C0, Timers, McASP0 serial clock, RTC, USB2.0 PHY)

      PLL1 .... 300000000 Hz

      PLL1:SYSCLK1 ..... 300000000 Hz (DDR2/mDDR PHY)

      PLL1:SYSCLK2 ..... 150000000 Hz (Optional for: McASP0,McBSP,ePWM,eCAP,SPI1)

```
    PLL1:SYSCLK3 ..... 100000000 Hz (PLL0 input)
-OALDumpClocks
-OEMInit
  PINMUX14=0x00000000
  PINMUX15=0x00000000
  PINMUX16=0x22222200
  PINMUX17=0x22222222
  PINMUX18=0x82000022
  PINMUX19=0x02000022
OEMGetExtensionDRAM: Added 0x83E00000 -> 0x88000000
OEM: Cleaning system hive
OEM: Cleaning user profiles
WARN: Updating local copy of BSP_ARGS
OEM: Not cleaning system hive
Adapter's MAC address is 04:32:F4:FD:E9:21


StartupApp: Launching process NAME='xamlperf.exe', CMD='\windows\bounce.xaml'
StartupApp: Process created OK
```
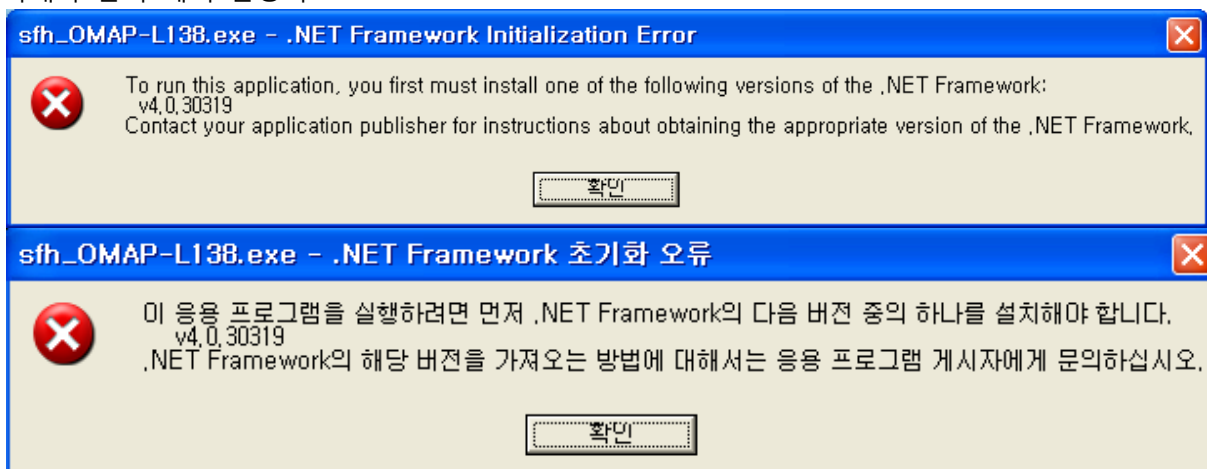
Windows Embedded CE 6.0 실행 모습을 볼 수 있습니다.

1.4. Error

1.4.1.dotNet Framework Initaialization Error

아래와 같이 에러 발생시

위의 error발생시

http://www.microsoft.com/en-us/download/details.aspx?id=17718

Microsoft

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Microsoft .NET Framework 4 (Standalone Installer)

Select Language: English   Download   Free

dotNetFx40_Full_x86_x64
Microsoft .NET Framework 4 Setup
Microsoft Corporation

파일 열기 - 보안 경고

이 파일을 실행하시겠습니까?

이름: dotNetFx40_Full_x86_x64.exe
게시자: Microsoft Corporation
형식: 응용 프로그램
출처: D:\dos\CRZ_main_board\CRZ_mango1808\me...

실행(R)   취소

☑ 이 파일을 열기 전에 항상 확인(W)

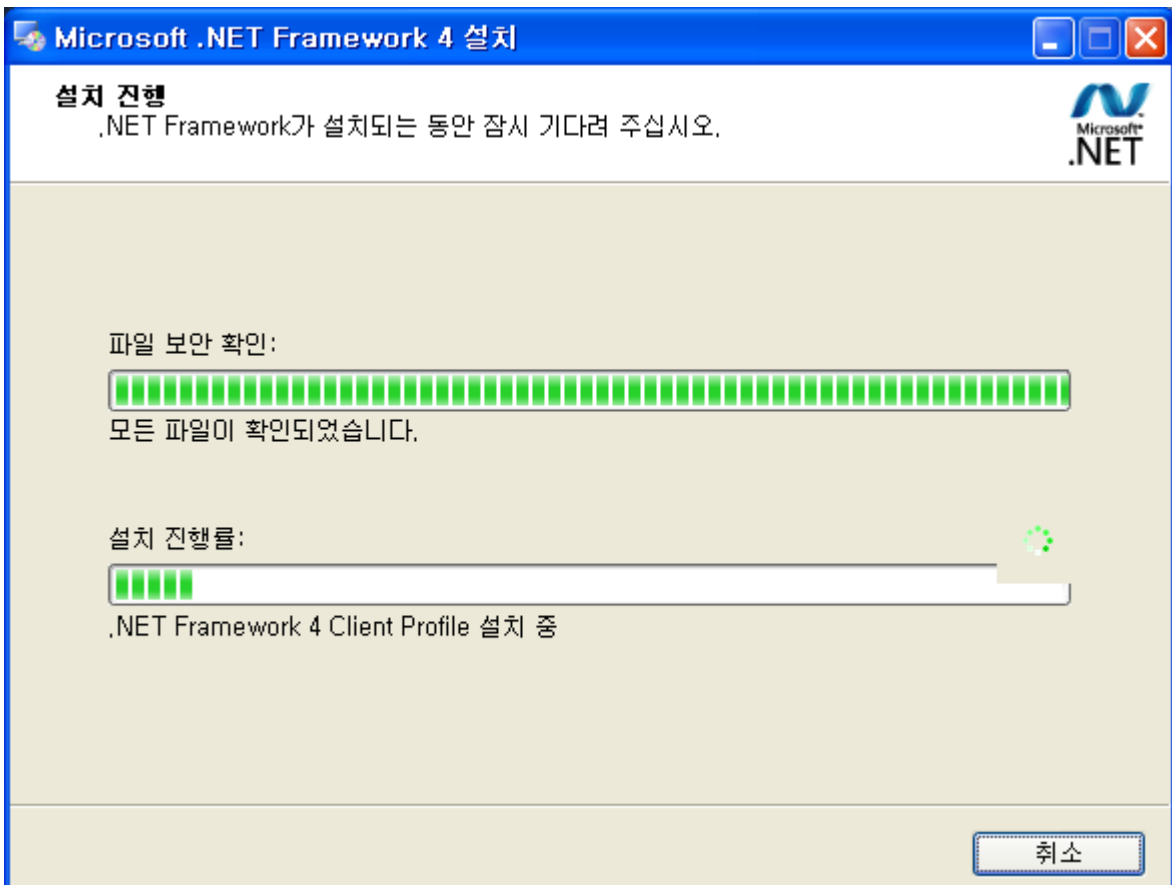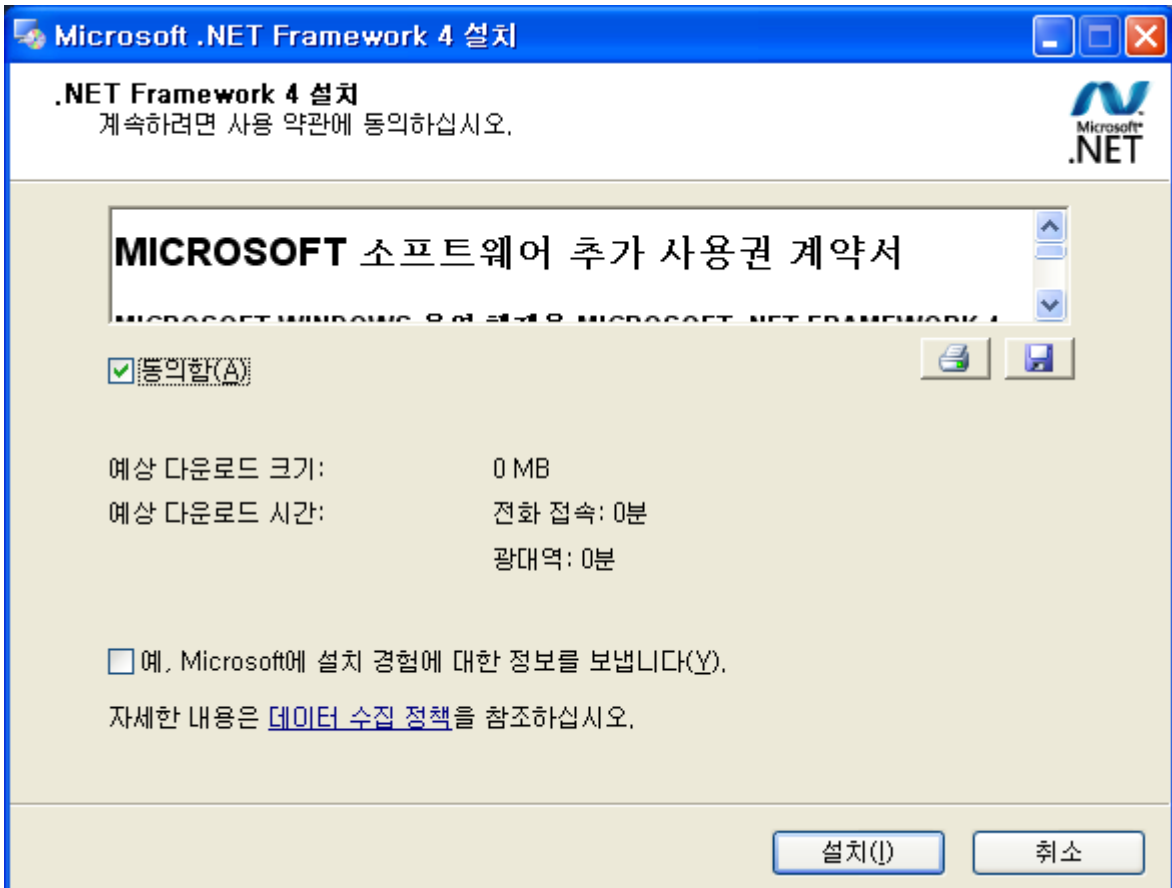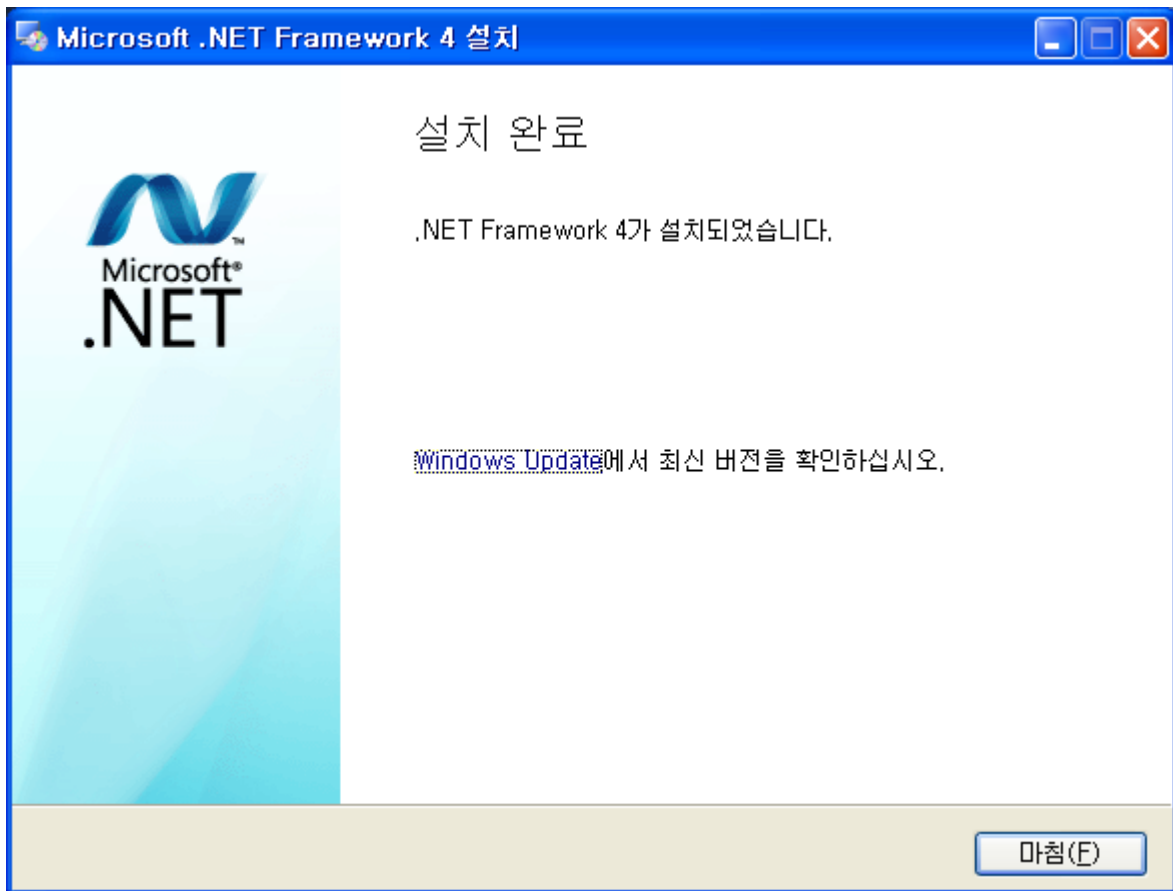이 형식의 파일은 사용자의 컴퓨터에 피해를 줄 수 있습니다. 신뢰할 수 있는 게시자로부터의 소프트웨어만 실행하십시오. 위험성

Extracting files

Preparing: D:\1ca6f5750783fa8e7b16df02f2\Windows6.1-KB958488-v6001-x64.msu

Cancel

Microsoft .NET Framework 4 설치

.NET Framework 4 설치
계속하려면 사용 약관에 동의하십시오.

MICROSOFT 소프트웨어 추가 사용권 계약서

☑ 동의함(A)

예상 다운로드 크기: 0 MB
예상 다운로드 시간: 전화 접속: 0분
                          광대역: 0분

☐ 예, Microsoft에 설치 경험에 대한 정보를 보냅니다(Y).

자세한 내용은 데이터 수집 정책을 참조하십시오.

설치(I)   취소

Microsoft .NET Framework 4 설치

설치 진행
.NET Framework가 설치되는 동안 잠시 기다려 주십시오.

파일 보안 확인:

모든 파일이 확인되었습니다.

설치 진행률:

.NET Framework 4 Client Profile 설치 중

취소

1.4.2.Access to the port 'COM11' is denied

아래와 같이 메시지가 뜨면

```
D:₩image₩mango1808₩20130423₩OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩new_bin>sfh_OMAP
-L138.
exe -erase -targetType MANGO1808 -flashType NAND -p COM11
-----------------------------------------------------
   TI Serial Flasher Host Program for OMAP-L138
   (C) 2012, Texas Instruments, Inc.
   Ver. 1.67
-----------------------------------------------------


     [TYPE] Global erase
   [TARGET] MANGO1808
   [DEVICE] NAND
   [NAND Block] 1
```

Attempting to connect to device COM11...

Access to the port 'COM11' is denied.

This application failed to open the COM port.

Most likely it is in use by some other application.

실행중인 터미널 창이 있는지 확인하여 닫아주면 됩니다.