

AM1808 Mango1808 Wince 6.0 이미지 Write 방법

<http://www.mangoboard.com/>

<http://cafe.naver.com/embeddedcrazyboys>

Crazy Embedded Laboratory

Document History

Revision	Date	Change note

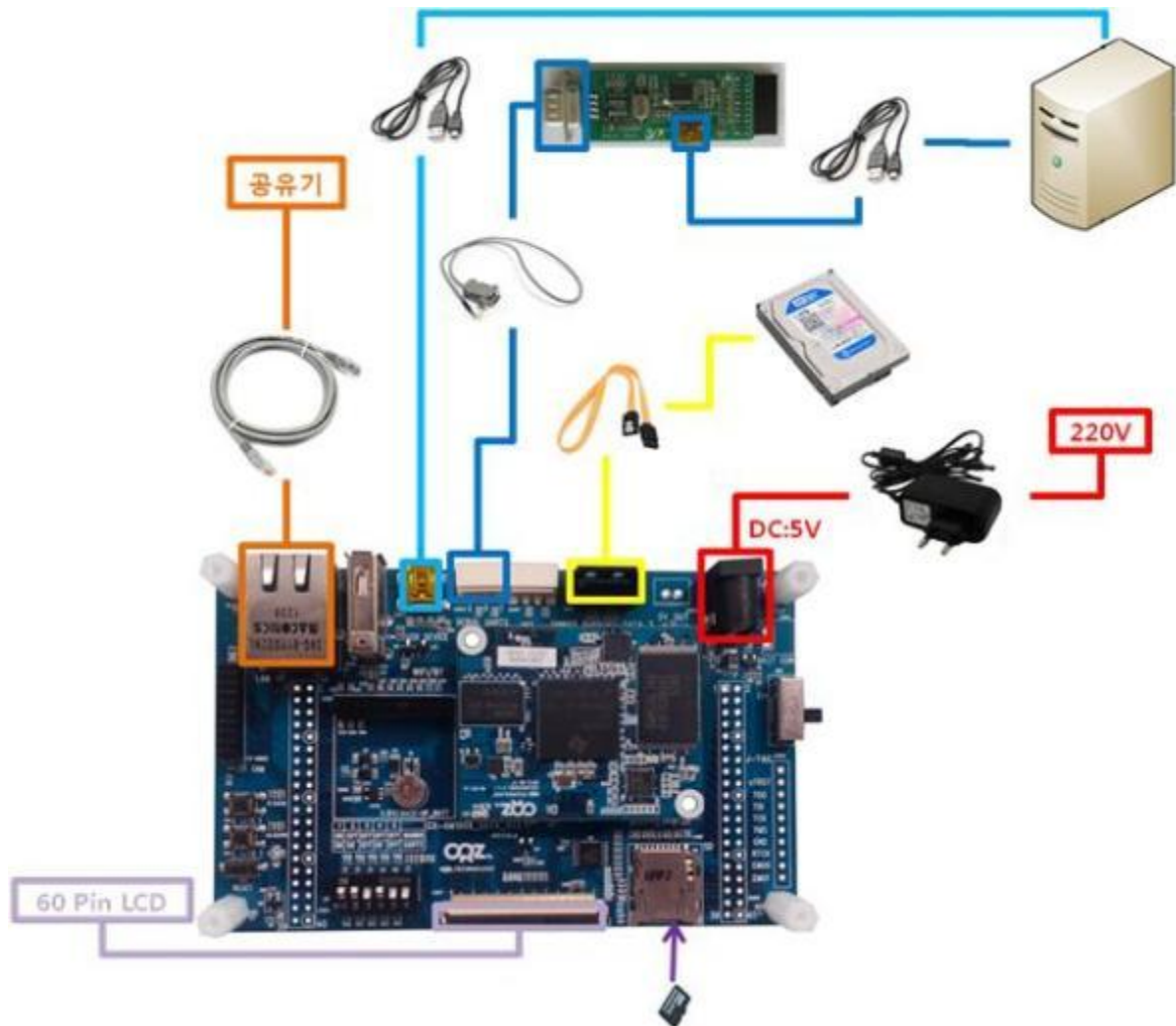
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1. AM1808 Mango1808 Wince 6.0 이미지 Write 방법

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_TL_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

이름	크기	종류	수정한 날짜
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_AM18XWSRCWBOOTWTOOLS\wbin으로 복사합니다.


stings\crz\바탕 화면\OMAPL138_AM18X\WSRC\BOOT\TOOLS\wbin

이름	크기	종류	수정한 날짜
arm-mmcsd-ais-456mhz...	13KB	BIN 파일	2011-07-01 오후 ...
arm-mmcsd-ais.bin	12KB	BIN 파일	2011-07-01 오후 ...
arm-nand-ais-456mhz.bin	14KB	BIN 파일	2011-07-01 오후 ...
arm-nand-ais.bin	13KB	BIN 파일	2011-07-01 오후 ...
arm-nor-ais-456mhz.bin	15KB	BIN 파일	2011-07-01 오후 ...
arm-nor-ais.bin	12KB	BIN 파일	2011-07-01 오후 ...
arm-spi-ais-456mhz...	13KB	BIN 파일	2011-07-01 오후 ...
arm-spi-ais.bin	12KB	BIN 파일	2011-07-01 오후 ...
diskman...			
EBOOTN...			
nand-wri...			
norflash...			
OMAPL1...			
sfh_OMA...			
spiflash...			


파일 바꾸기 확인

 이 폴더에 이미 'EBOOTNANDFLASH.nb0' 파일이 있습니다.

기존 파일을

-  256KB
2012년 8월 17일 금요일, 오후 1:02:58 수정됨

이 파일로 바꾸시겠습니까?

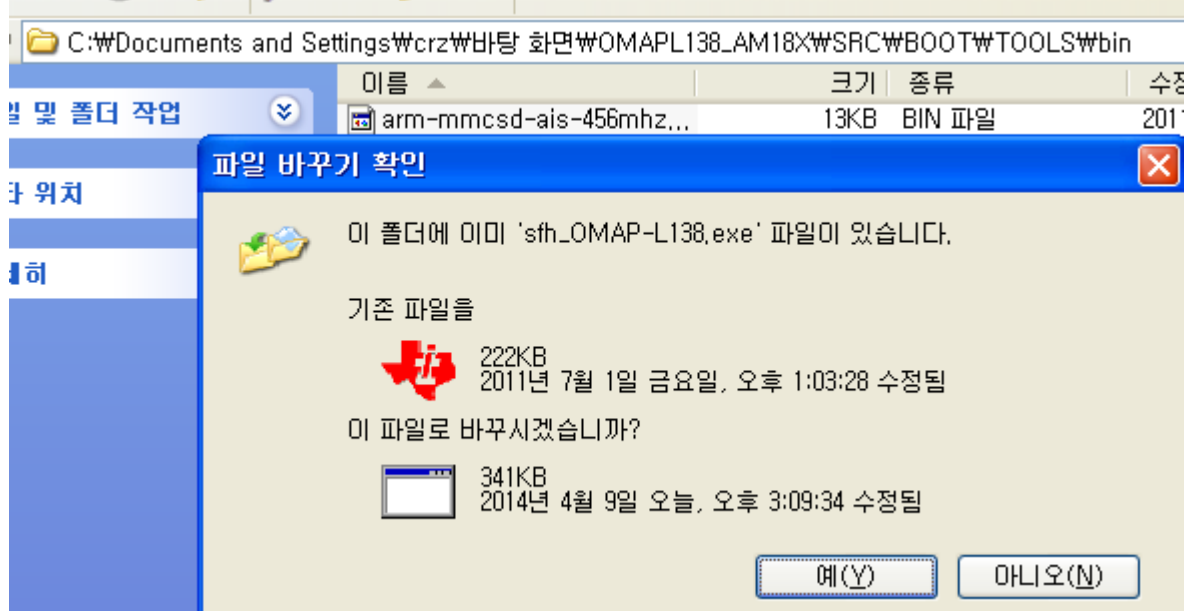
-  256KB
2013년 6월 12일 수요일, 오후 2:52:04 수정됨

sfh_OMAP-L138.exe를 다운로드 합니다.

 [sfh_OMAP-L138.exe](#)

09-Apr-2014 06:56 342k

다운로드 한 sfh_OMAP-L138.exe를 OMAPL138_AM18XWSRCWBOOTWTOOLS\bin으로 복사합니다.



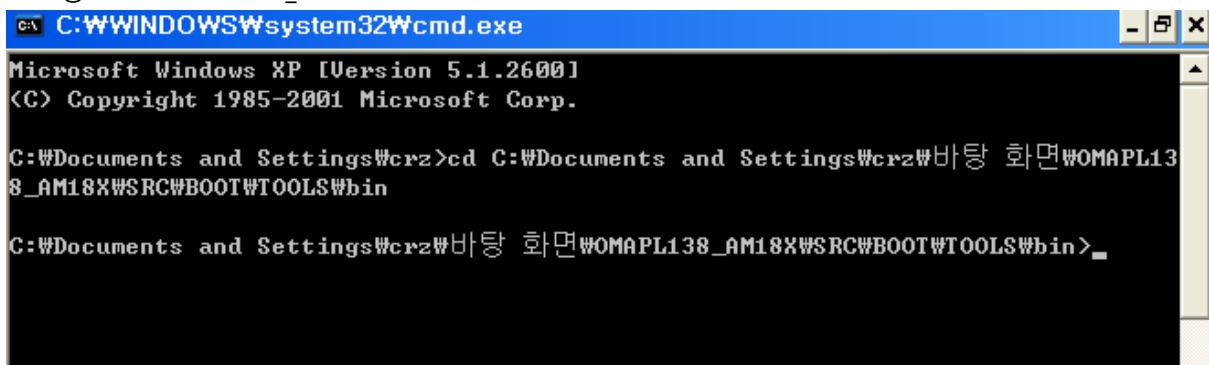
 [ub1_MANGO1808_NAND.bin](#)

09-Apr-2014 07:43 13k

다운로드 한 ub1_MANGO1808_NAND.bin을 OMAPL138_AM18XWSRCWBOOTWTOOLS\bin으로 복사합니다.

Command 창 실행

```
cd <경로>\OMAPL138_AM18XWSRCWBOOTWTOOLS\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\wcrz\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 Initiaalization 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) Copyright 1985-2001 Microsoft Corp.

```
C:\Documents and Settings\wcrz\바탕 화면\OMAPL138_AM18X\SRC\BOOT\TOOLS\bin>
sfh_OMAP-L138.exe -flash -flashType NAND -targetType MANGO1808 -v -p COM1 -appStartAddr
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 Term 등 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
BBBBBBlight 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

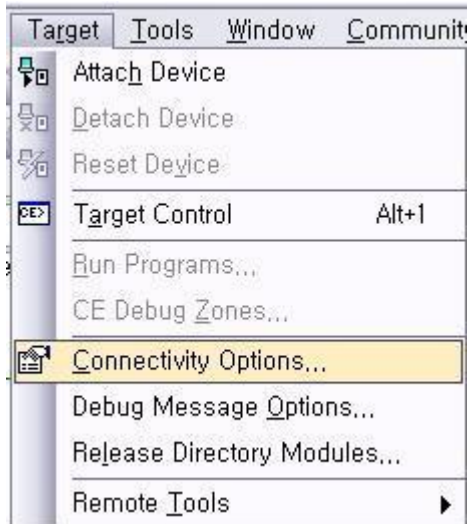
Selection:6

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

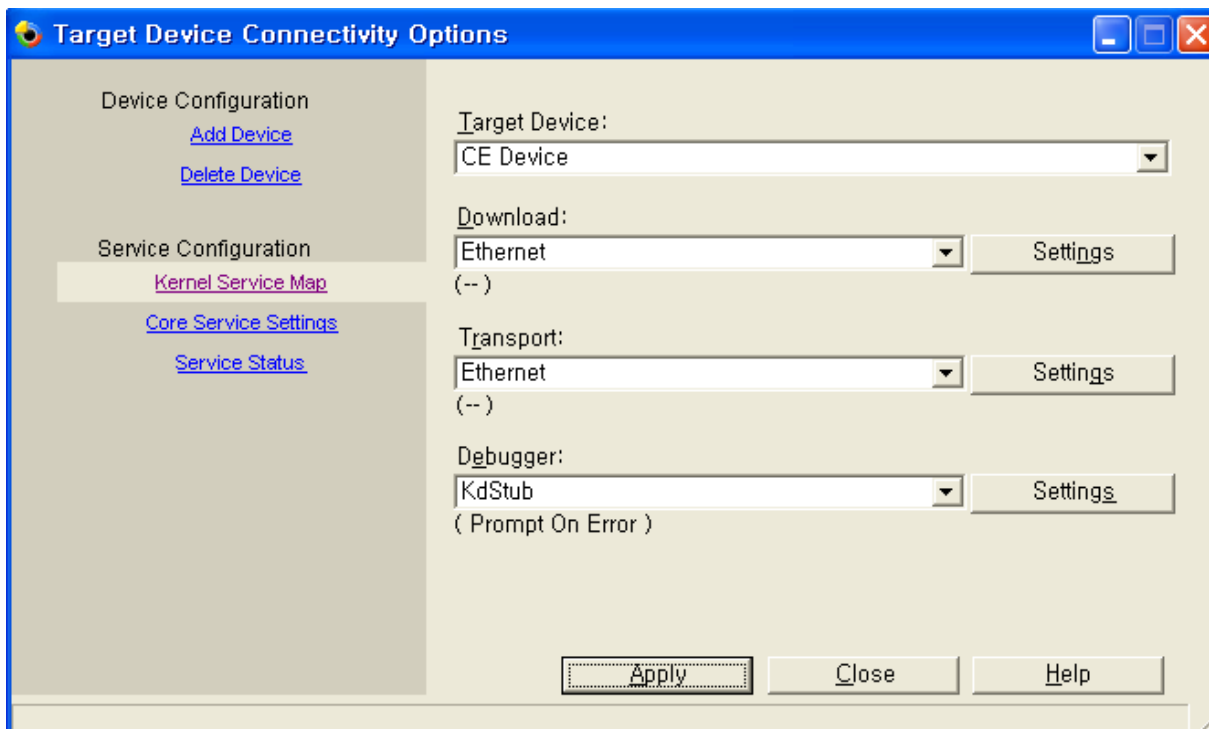
FMD: ReadID (Mfg=0xec, Dev=0xda)

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
BBBBBBlight 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

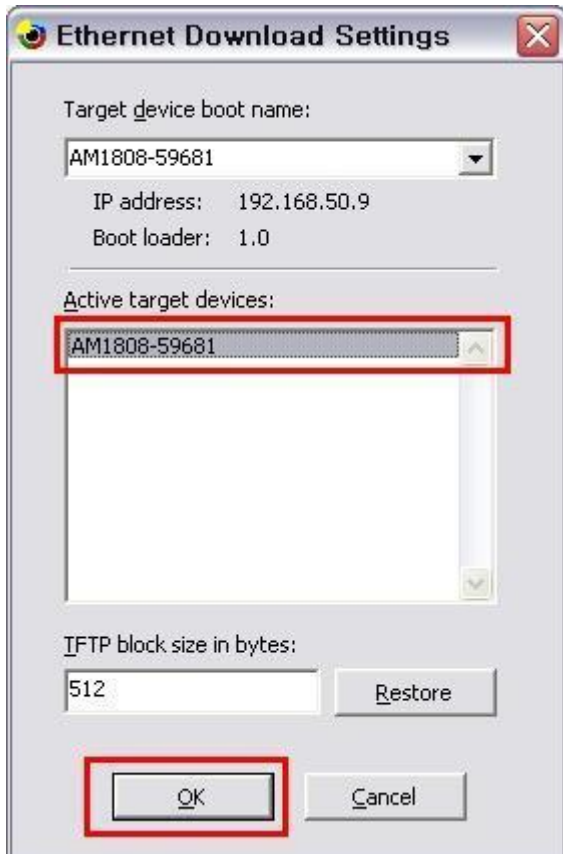
ProcessDHCP():DHCP IP Address Resolved as 192.168.57.4, netmask: 255.255.255.0
Lease time: 86400 seconds
Got Response from DHCP server, IP address: 192.168.57.4
No ARP response in 2 seconds, assuming ownership of 192.168.57.4
+EbootSendBootmeAndWaitForTftp
Sent BOOTME to 255.255.255.255
Sent BOOTME to 255.255.255.255
```

위와 같이 연결이 되면

Visual studio 2005 (**build가 완료되어 있어야 함**) 에서

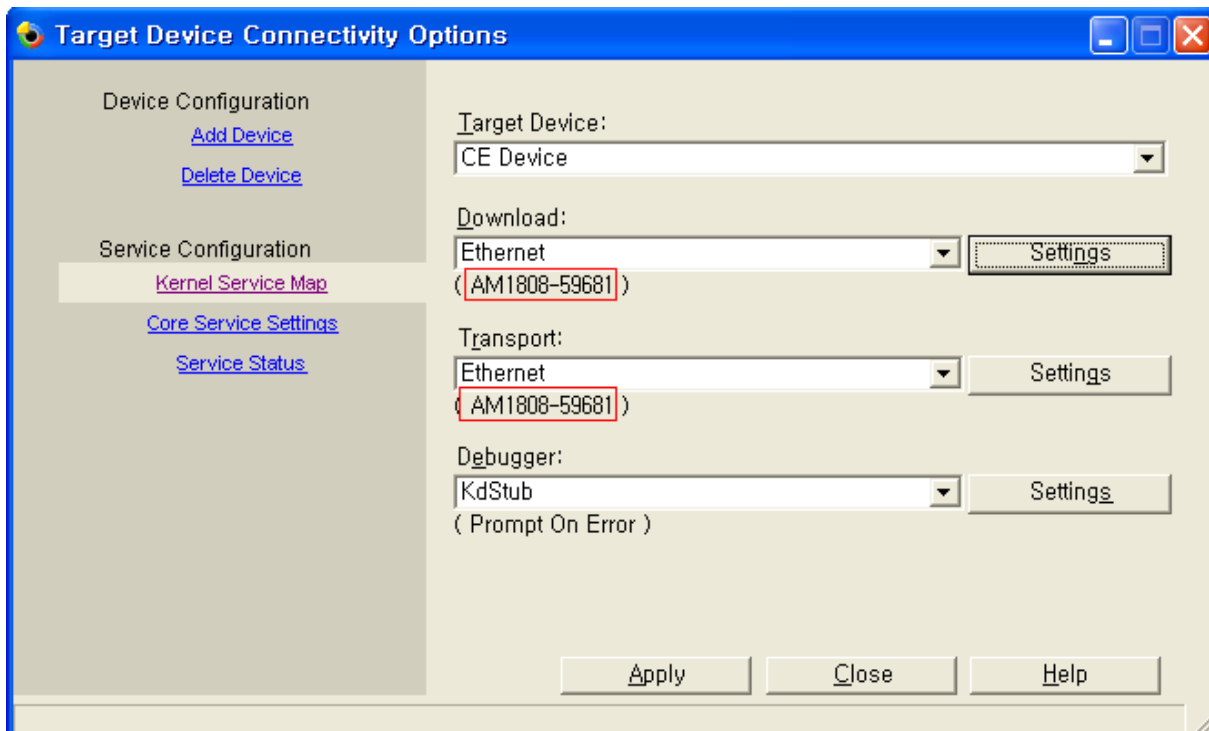
Ethernet Download Settings창에서

Active target devices: 아래 AM1808-59681 생성되면 클릭 후 ok 버튼 선택



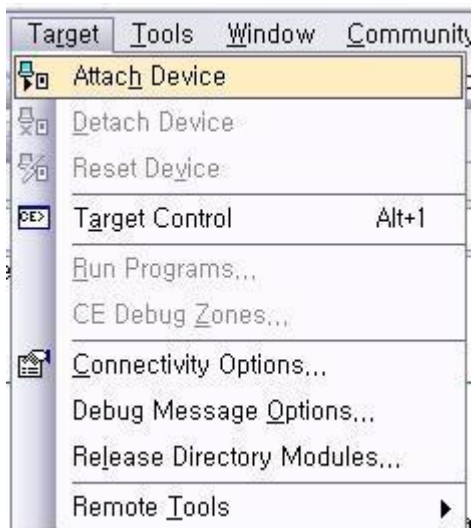
OK를 클릭합니다.

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

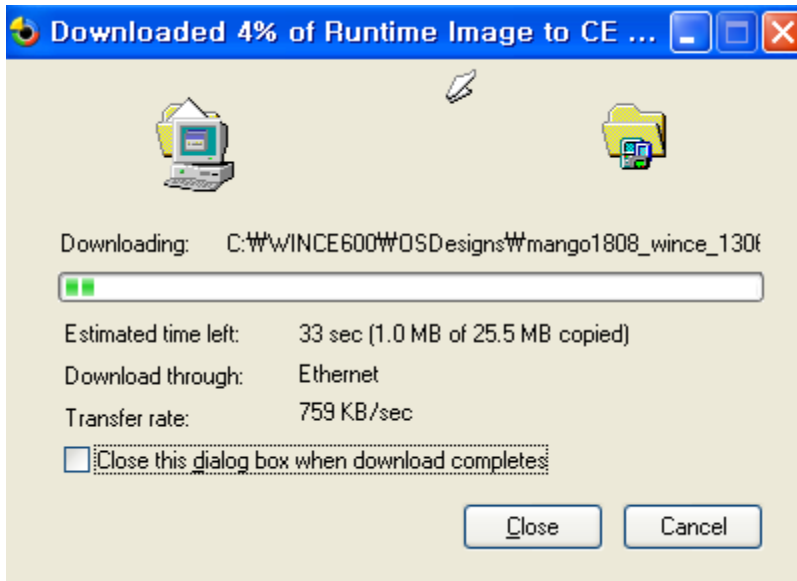


Apply를 클릭합니다.

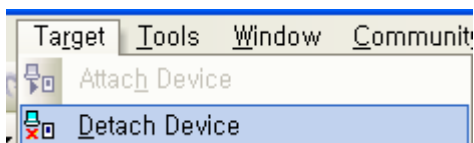
Target > Attach Device 선택합니다.



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 506666666 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

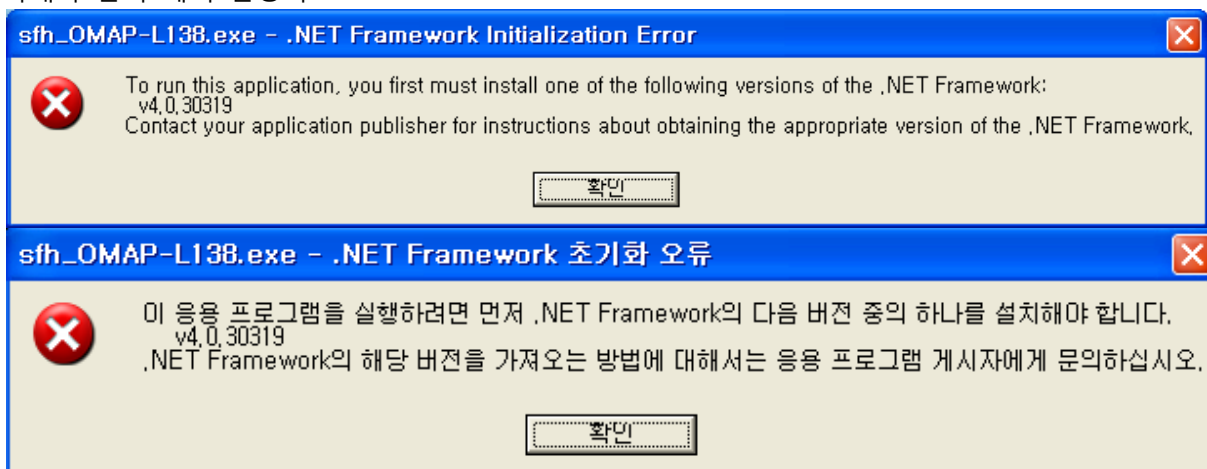
StartupApp: Launching process NAME='xamlperf.exe', CMD='%windir%\xamlperf.exe'
StartupApp: Process created OK
```

Windows Embedded CE 6.0 실행 모습을 볼 수 있습니다.

1.4. Error

1.4.1. dotNet Framework Initialization Error

아래와 같이 에러 발생시



위의 error발생시

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



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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)



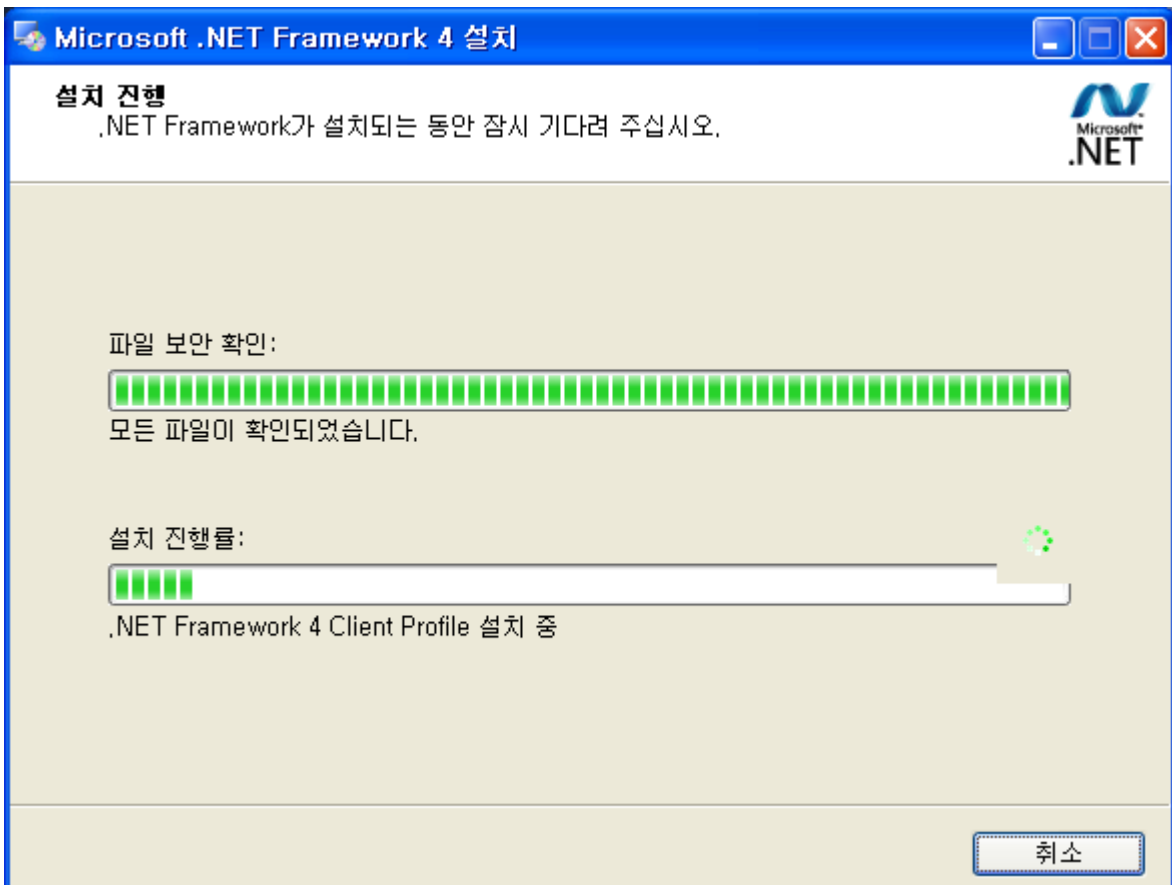
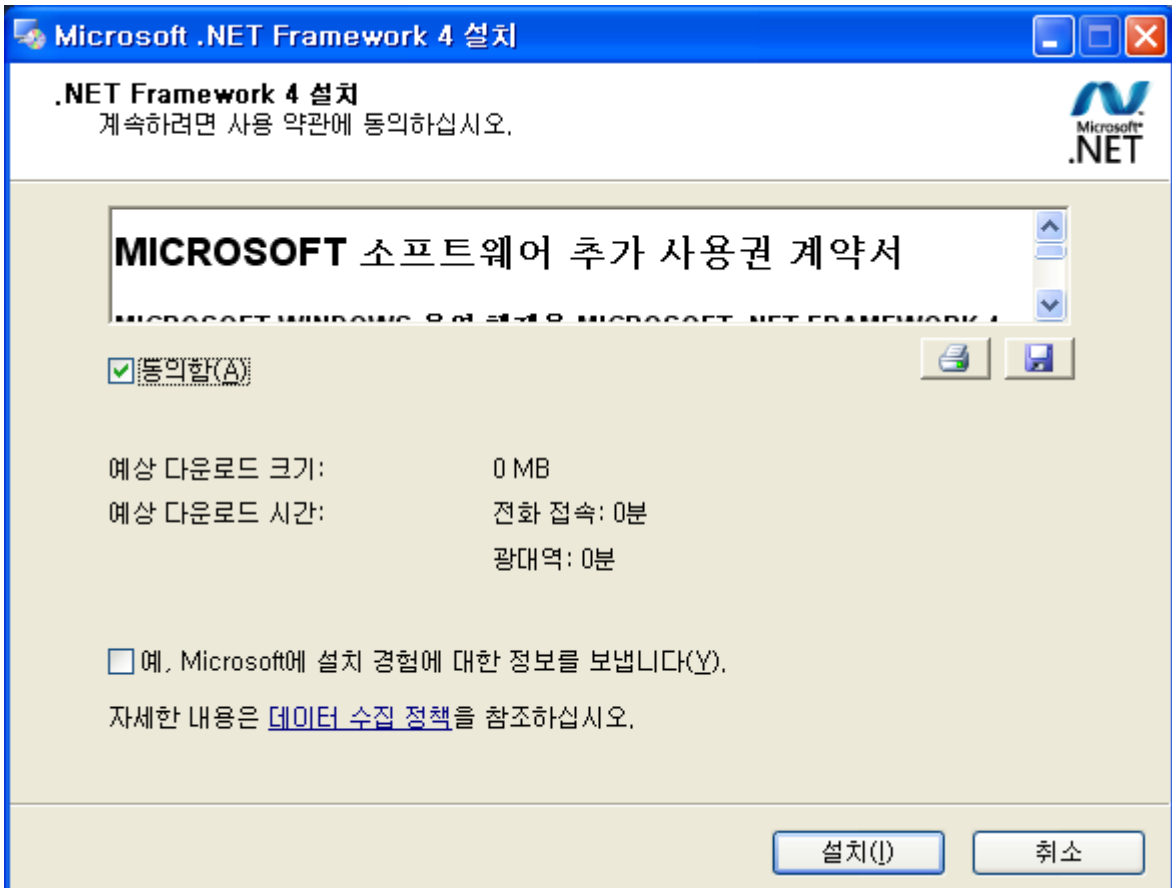
이 형식의 파일은 사용자의 컴퓨터에 피해를 줄 수 있습니다. 신뢰할 수 있는 게시자로부터의 소프트웨어만 실행하십시오. [위험성](#)

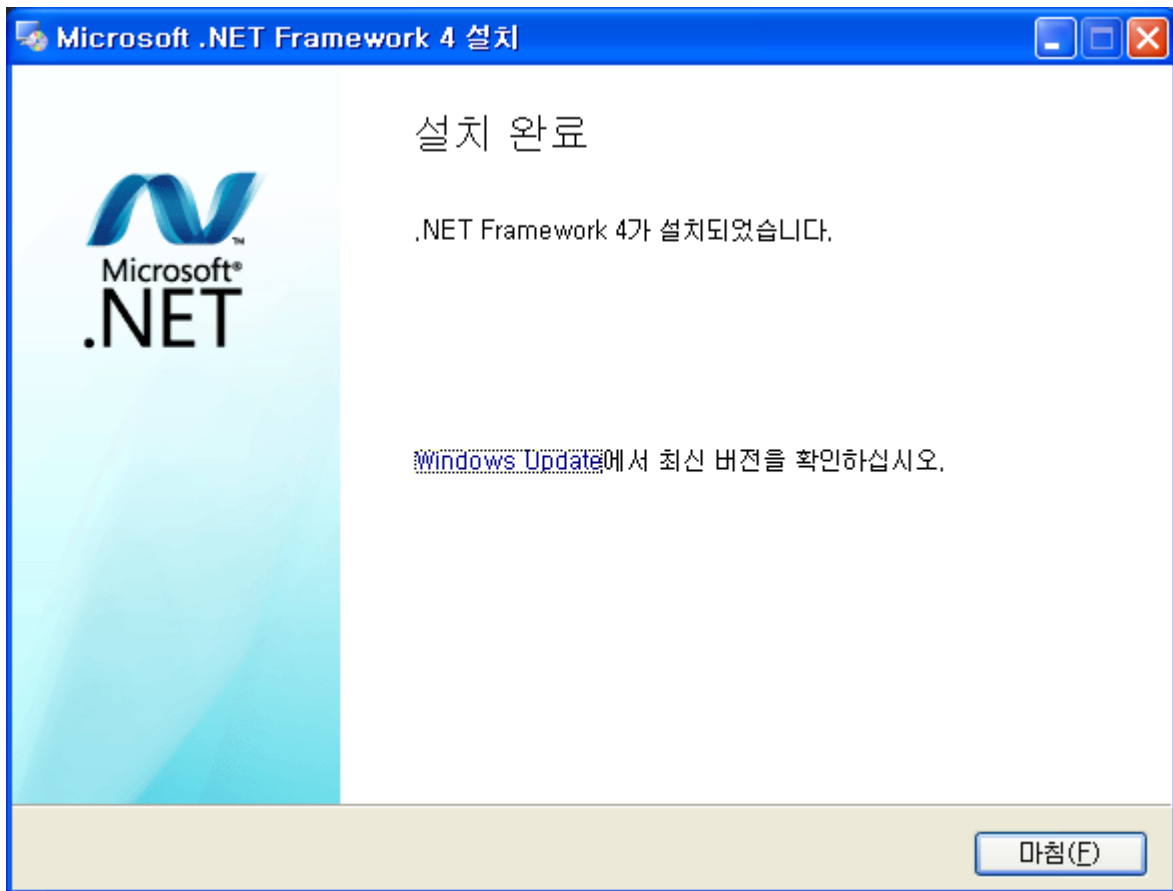
Extracting files



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

Cancel





1.4.2. Access to the port 'COM11' is denied

아래와 같이 메시지가 뜨면

```
D:\Wimage\Wmango1808\W20130423\WOMAPL138_AM18X\Wsrc\WBOOT\WTOOLS\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.