AM1808 Mango1808 Wince 6.0 이미지 Write 방법

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Document History

Revision	Date	Change note

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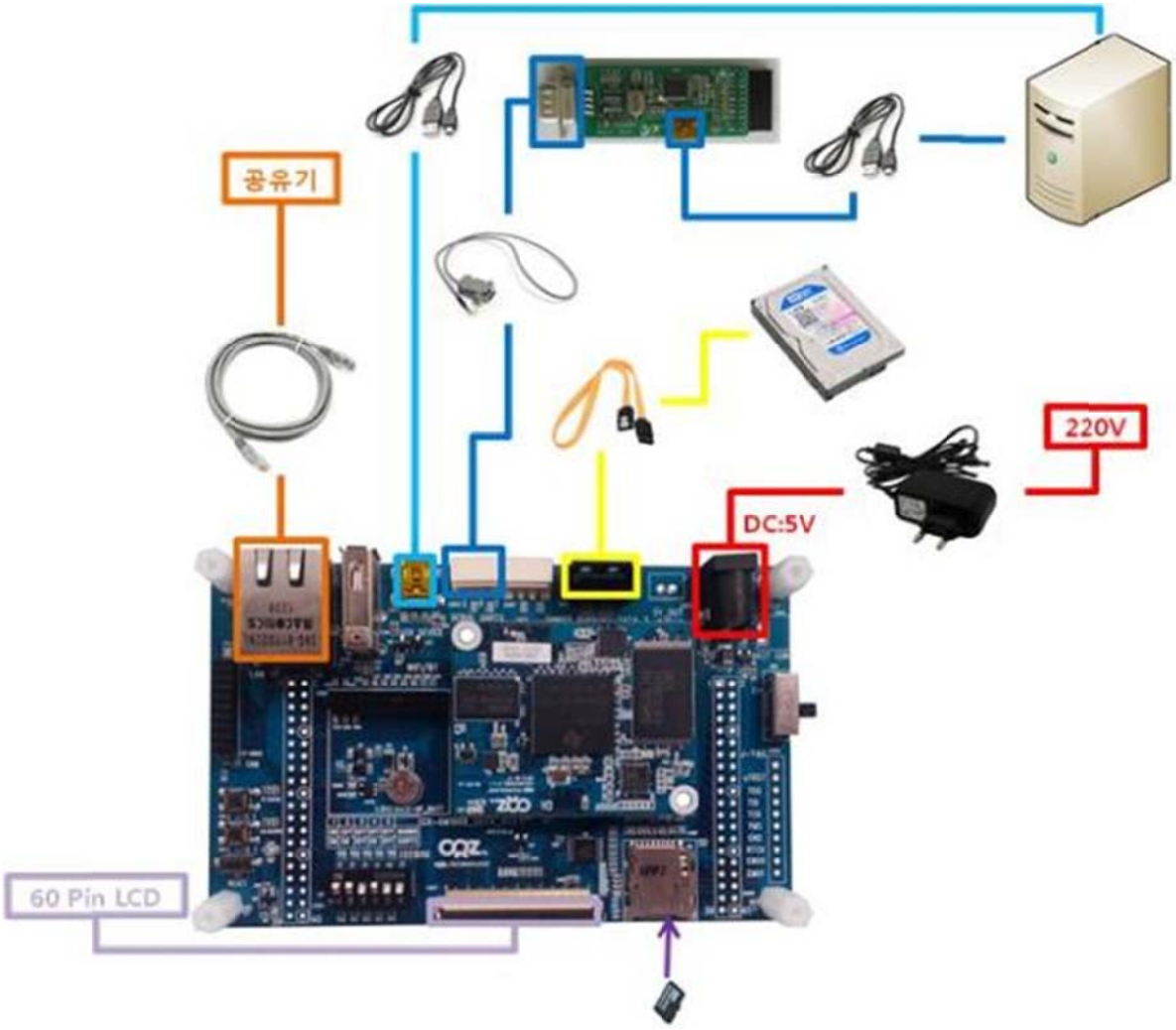
1. AM1808 Mango1808 Wince 6.0 이미지 Write 방법

Soc :

1.1. Connections and ready for download

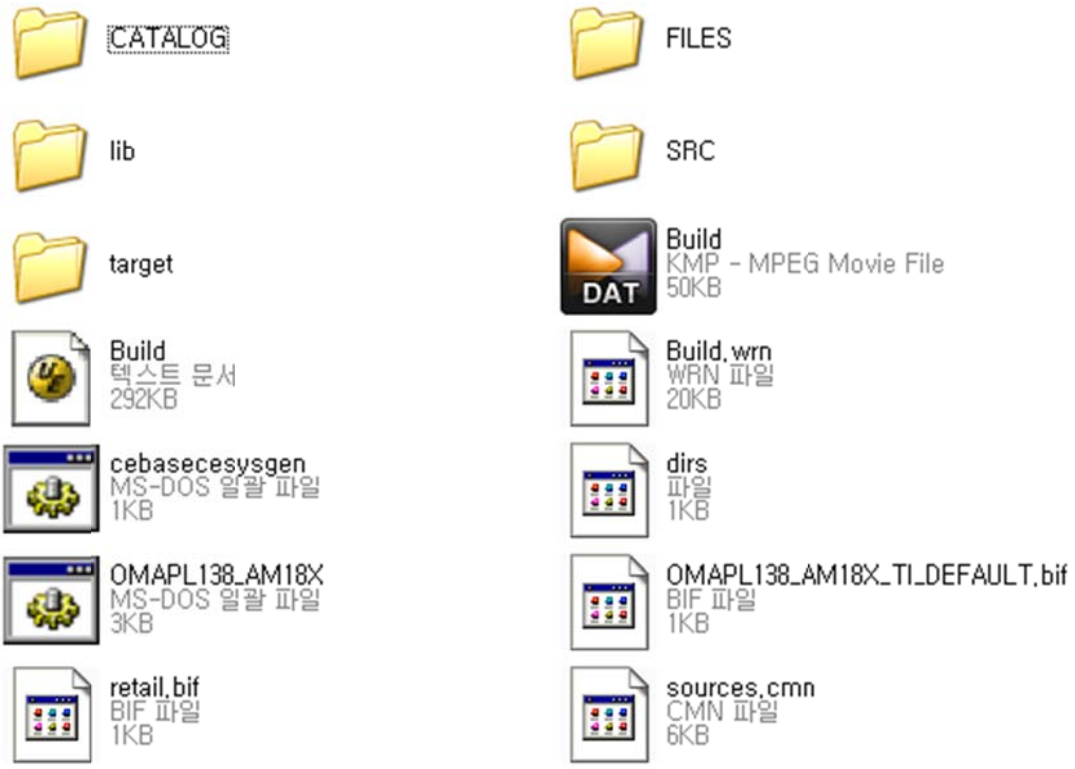
1.1.1. MANGO1808 전원 및 Cable 연결 방법



1.1.2. 다운로드 및 준비

소스를 다운

OMAPL138_AM18X.zip 압축 풀어줌



Command 창 실행

Cd <경로>₩OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩new_bin

UART2 Boot SW [1],[2],[4]ON 나머진 OFF

1.2. How to erase and eboot writer

1.2.1. MANGO1808 How to NAND Erase

> sfh_OMAP-L138.exe -erase -targetType MANGO1808 -flashType NAND -p COM'X'
D:₩image₩mango1808₩20130423₩OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩bin>sfh_OMAP-L138.exe -erase -targetType MANGO1808 -flashType NAND -p COM11 ---------- TI Serial Flasher Host Program for OMAP-L138 (C) 2010, Texas Instruments, Inc. Ver. 1.67 ----------

```
    [TYPE] Global erase
  [TARGET] AM1808
  [DEVICE] NAND

Attempting to connect to device COM11...
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...

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



Operation completed successfully.
```

1.2.2. Mango1808 How to Eboot NAND writer

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

```
D:₩image₩mango1808₩20130423₩OMAPL138_AM18X₩SRC₩BOOT₩TOOLS₩new_bin>sfh_OMAP-L138.exe -flash -flashType NAND -targetType MANGO1808 -v -p COM11 -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 COM11...
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:     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 0x000000
00
        Target:     DONE
        Target:     DONE

Operation completed successfully.
```

1.3. How to NAND that NK Writer and boot setting

NAND Boot SW [1],[5]ON 나머진 OFF
Reset

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

모든 메뉴에서 1을 누르면 Show Current Settings
[3] Network Settings 선택
[3] KITL interrupt/poll mode 선택 후 > y
[8] Enable/disable VMINI 선택 후 > y

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

Main Menu로 돌아와
[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

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

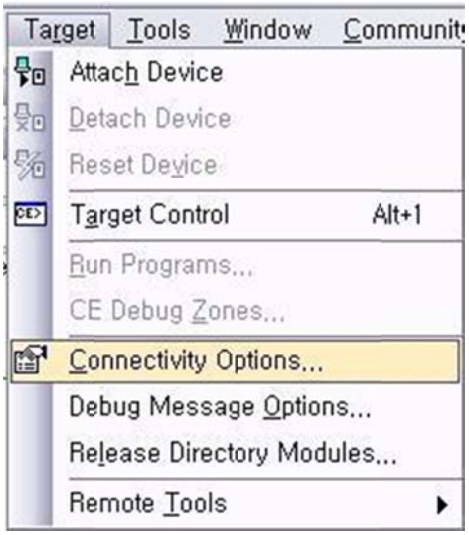
Main Menu로 돌아와

[6] Save Settings 선택 후 > y

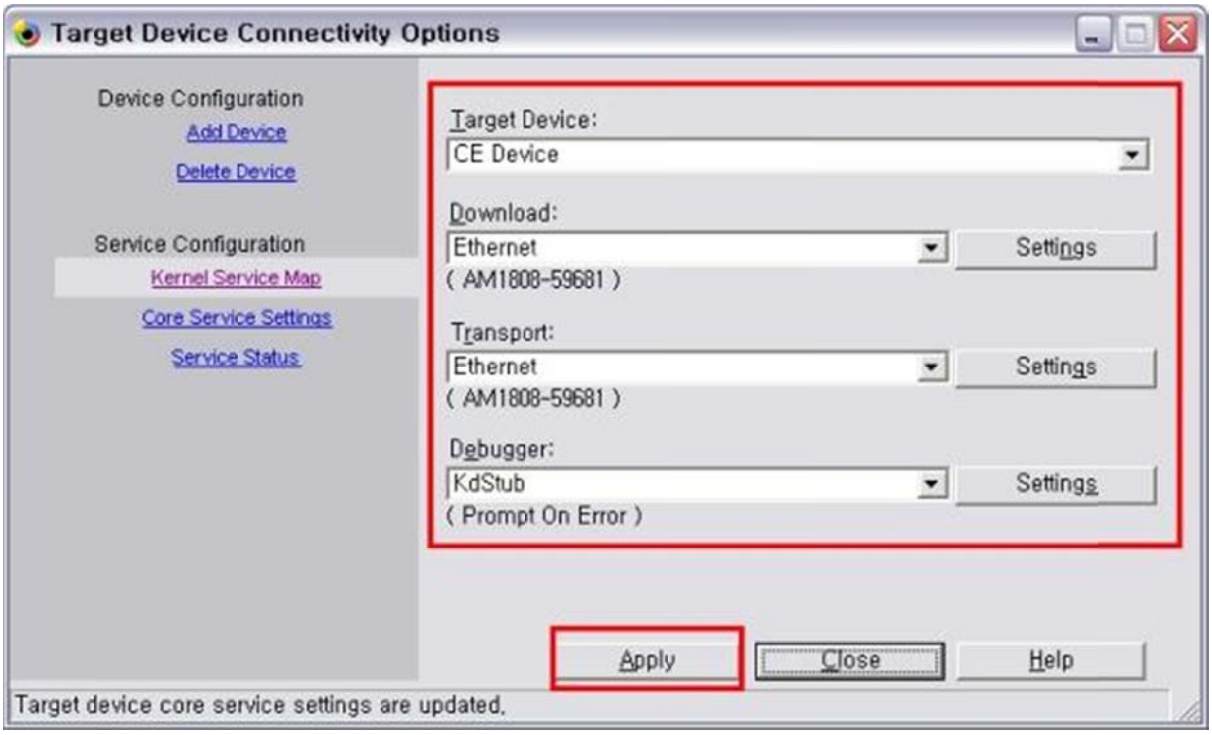
```
-------------------------------------------------------------------------------
 Main Menu
-------------------------------------------------------------------------------
 [1] Show Current Settings
 [2] Boot Settings
 [3] Network Settings
 [5] Video Settings
 [6] Save Settings
 [7] Peripheral Tests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

 Selection:6
Do you want save current settings [-/y]? y
 Current settings has been saved
```

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

Target > Connectivity Options... 선택



아래와 같이 설정 후 Apply



Eboot Menu 돌아와

[2] Boot Settings 선택

[2] Select Boot Device 선택

[1] EMAC 선택

[0] Exit and Continue 로 나가 부팅되도록 함

```
 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
```

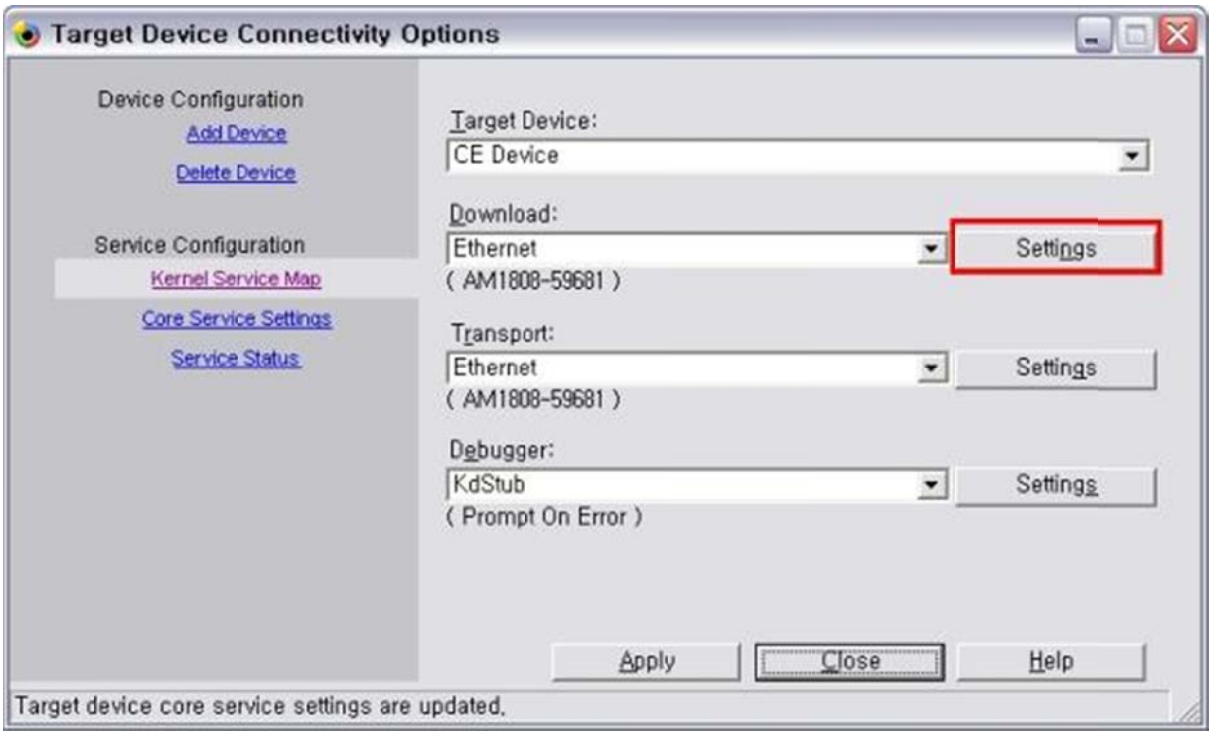
```
Boot:
   Boot delay ............. 3
   Boot device ............. EMAC
   Debug device ........... EMAC
   Clean Boot ............. No
   Write RAM NK to flash: .. Yes
   Device ID String ........ (not specified)
   Allow DSP to Boot: ...... No
```

아래와 같은 로그 확인 가능

```
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
```

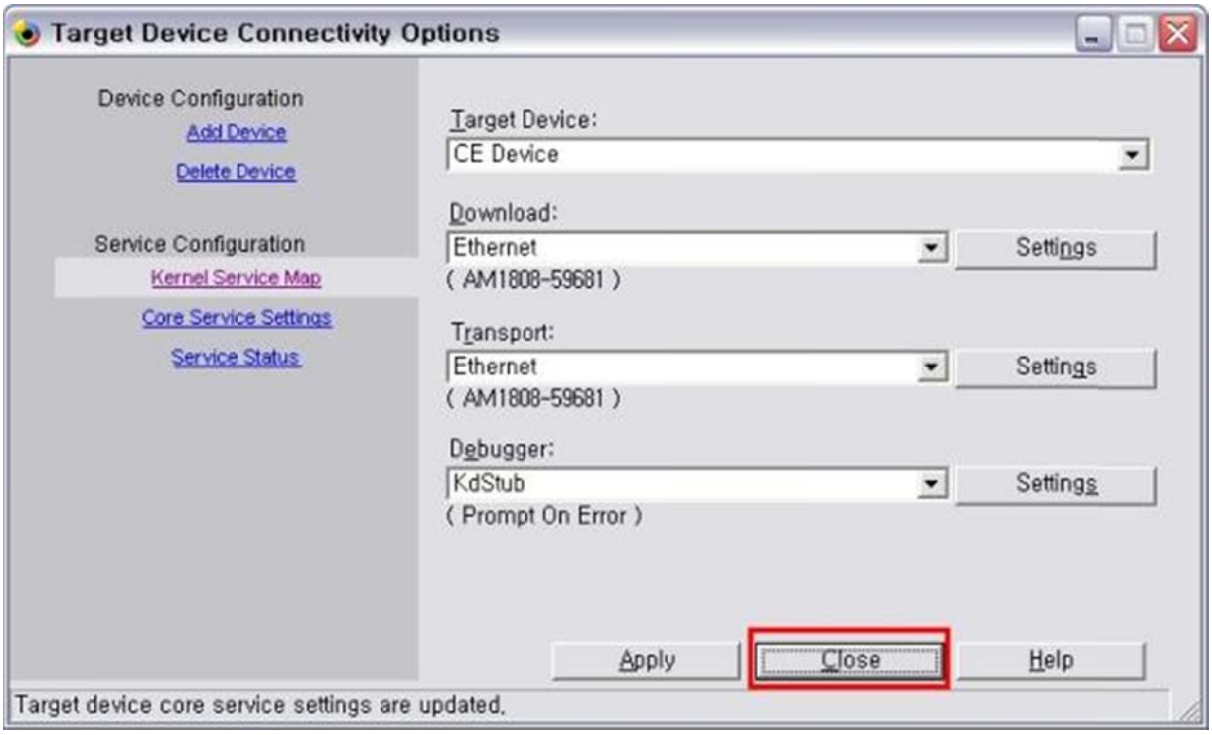
```
InitDHCP():: Calling ProcessDHCP()
ProcessDHCP()::DHCP_INIT
Got Response from DHCP server, IP address: 192.168.50.9

ProcessDHCP()::DHCP IP Address Resolved as 192.168.50.9, netmask: 255.255.255.0
Lease time: 864000 seconds
Got Response from DHCP server, IP address: 192.168.50.9
No ARP response in 2 seconds, assuming ownership of 192.168.50.9
+EbootSendBootmeAndWaitForTftp
Sent BOOTME to 255.255.255.255
```

위와 같이 연결이 되면
Visual studio 돌아와 Target Device Connectivity Options 에서
Settings클릭

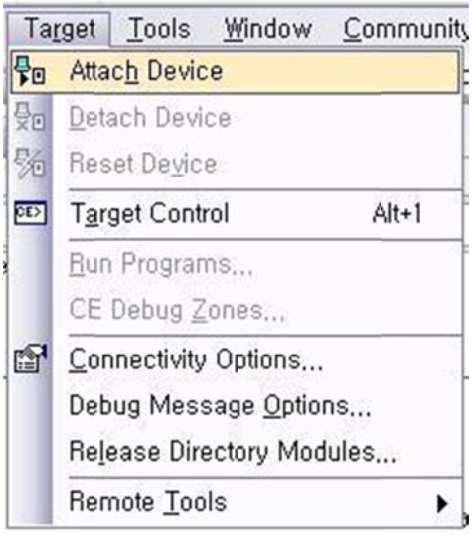


아래와 같은 창이 생성 Active target devices: 아래 AM1808-59681 생성되면 클릭 후 ok클릭

Close 클릭

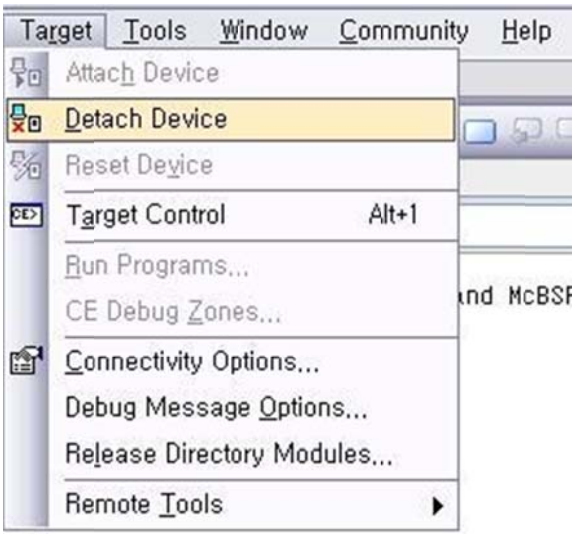


Target > Attach Device 선택



다운로드 완료 후 Close로 창을 닫음

Target > Detach Device 선택



Log 확인

```
Packet has the following data:
   boot.bin[NULL]octet[NULL]
TFTP packet could have 1 name/value pairs
Locked Down Link 1
Src IP 192.168.50.9 Port 03D4     Dest IP 192.168.50.8 Port 085C
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_FLASHRAM
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=FLASH
```

```
OEMWriteFlash: Writing NK image to NAND flash
OEMWriteFlash: Flash has 262144 sectors, 2048 bytes/sector

ROMHDR (pTOC = 0xc1a6334c) ---------------------
   DLL First                : 0x4001c001
   DLL Last                 : 0x415ac0a0
   Physical First          : 0x80000000
   Physical Last           : 0x81a6592c
   Num Modules              :            205
   RAM Start                : 0x81a70000
   RAM Free                 : 0x81a7f000
   RAM End                  : 0x8373f800
   Num Copy Entries       :              2
   Copy Entries Offset : 0x8060ad08
   Prof Symbol Length    : 0x00000000
   Prof Symbol Offset    : 0x00000000
   Num Files                :            109
   Kernel Flags             : 0x00000000
   FileSys RAM Percent : 0x30303030
   Driver Glob Start     : 0x00000000
   Driver Glob Length    : 0x00000000
   CPU                      :        0x01c2
   MiscFlags                :        0x0002
   Extensions               : 0x80001070
   Tracking Mem Start    : 0x00000000
   Tracking Mem Length : 0x00000000
-----------------------------------------------

  OEMWriteFlash: Written 0%
  OEMWriteFlash: Written 0%
  OEMWriteFlash: Written 0%
  OEMWriteFlash: Written 0%
...
...
...
OEMWriteFlash: Written 99%
  OEMWriteFlash: Written 99%
  OEMWriteFlash: Written 99%
  OEMWriteFlash: Written 99%
```

```
OEMWriteFlash: NK written
ROMHDR at Address 80000044h
Image Start .......: 0x80000000
Image Size ........: 0x01a6592c
Image Launch Addr .: 0x80001000
Image ROMHDR ......: 0xc1a6334c
Boot Device/Type ..: 2 / 6
Got EDBG_CMD_JUMPIMG
Got EDBG_CMD_CONFIG, flags:0x00000000
BLFlashDownload: LogicalLoc   - 0x62000000

Load NK image from flash memory (NAND)
BLFlashDownload: cp1

ROMHDR (pTOC = 0xc1a6334c) ---------------------
   DLL First                : 0x4001c001
   DLL Last                 : 0x415ac0a0
   Physical First          : 0x80000000
   Physical Last           : 0x81a6592c
   Num Modules             :          205
   RAM Start               : 0x81a70000
   RAM Free                : 0x81a7f000
   RAM End                 : 0x8373f800
   Num Copy Entries        :            2
   Copy Entries Offset : 0x8060ad08
   Prof Symbol Length   : 0x00000000
   Prof Symbol Offset   : 0x00000000
   Num Files               :          109
   Kernel Flags            : 0x00000000
   FileSys RAM Percent : 0x30303030
   Driver Glob Start    : 0x00000000
   Driver Glob Length   : 0x00000000
   CPU                     :      0x01c2
   MiscFlags               :      0x0002
   Extensions              : 0x80001070
   Tracking Mem Start   : 0x00000000
   Tracking Mem Length : 0x00000000
-----------------------------------------------
```

```
ADEO: Launch Windows Embedded CE by jumping to 0xc0000000...
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

StartupApp: Process timed out, TA code: 0x1
```

Writer 까지 완료 합니다. Reboot 를 하면 정상으로 작동 확인

1.4. How to SD that NK Writer and boot setting

NK.nb0를 비어있는 SD 카드에 복사 후 mango1808에 삽입
NAND Boot SW [1],[5]ON 나머진 OFF
Reset

```
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 Mar 29 2013 19:06:40
INFO:OALLogSetZones: dpCurSettings.ulZoneMask: 0xb
Microsoft Windows CE EBOOT 1.0 for AM1808 OMAPL138/AM18X EVM. Built Apr  4 2013 at 16:58:07
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...
FMD:ReadID Device not Supported Mfg=0xec, Dev=0xda
ERROR: EBOOT: FMD_Init call failed!
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

Hit space to enter configuration menu   2

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

 Selection:
```

```
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:
```

```
Selection: 2

--------------------------------------------------------------------------------
 Select Boot Device
--------------------------------------------------------------------------------
```

```
[1] EMAC
[2] NK from SD
[3] NK from NAND flash
[0] Exit and Continue

Selection (actual NK from SD):
```

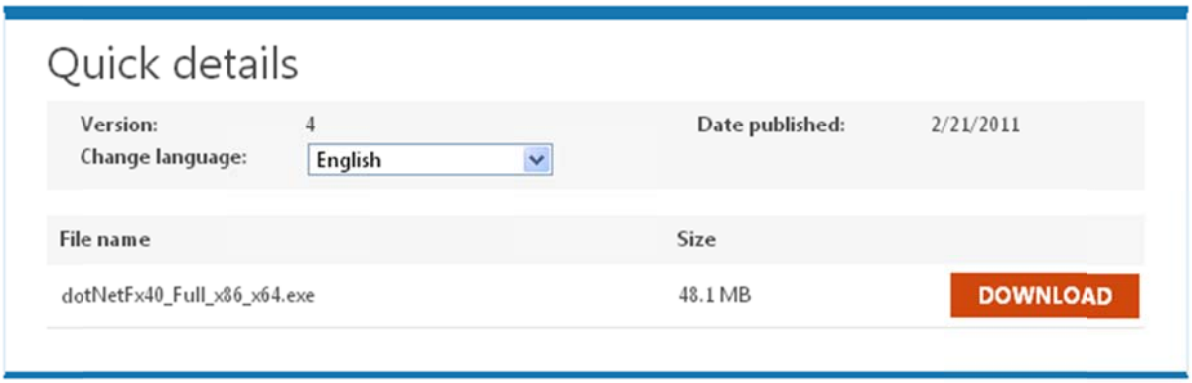
Reset

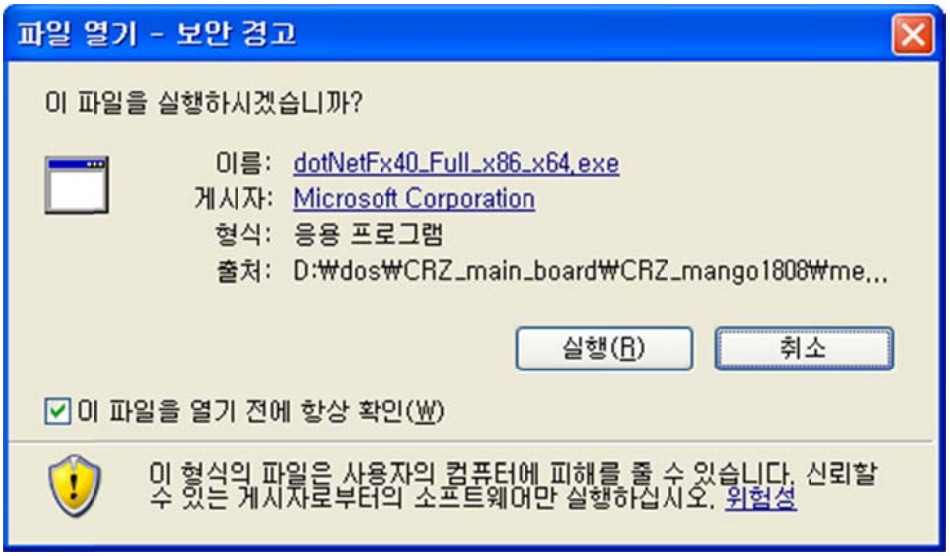
1.5. Error

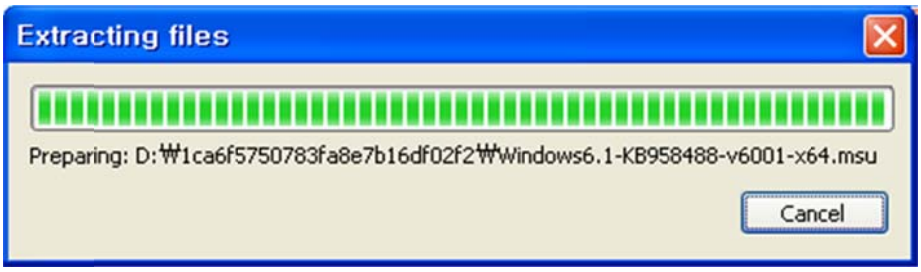
1.5.1. dotNet Framework Initaialization Error

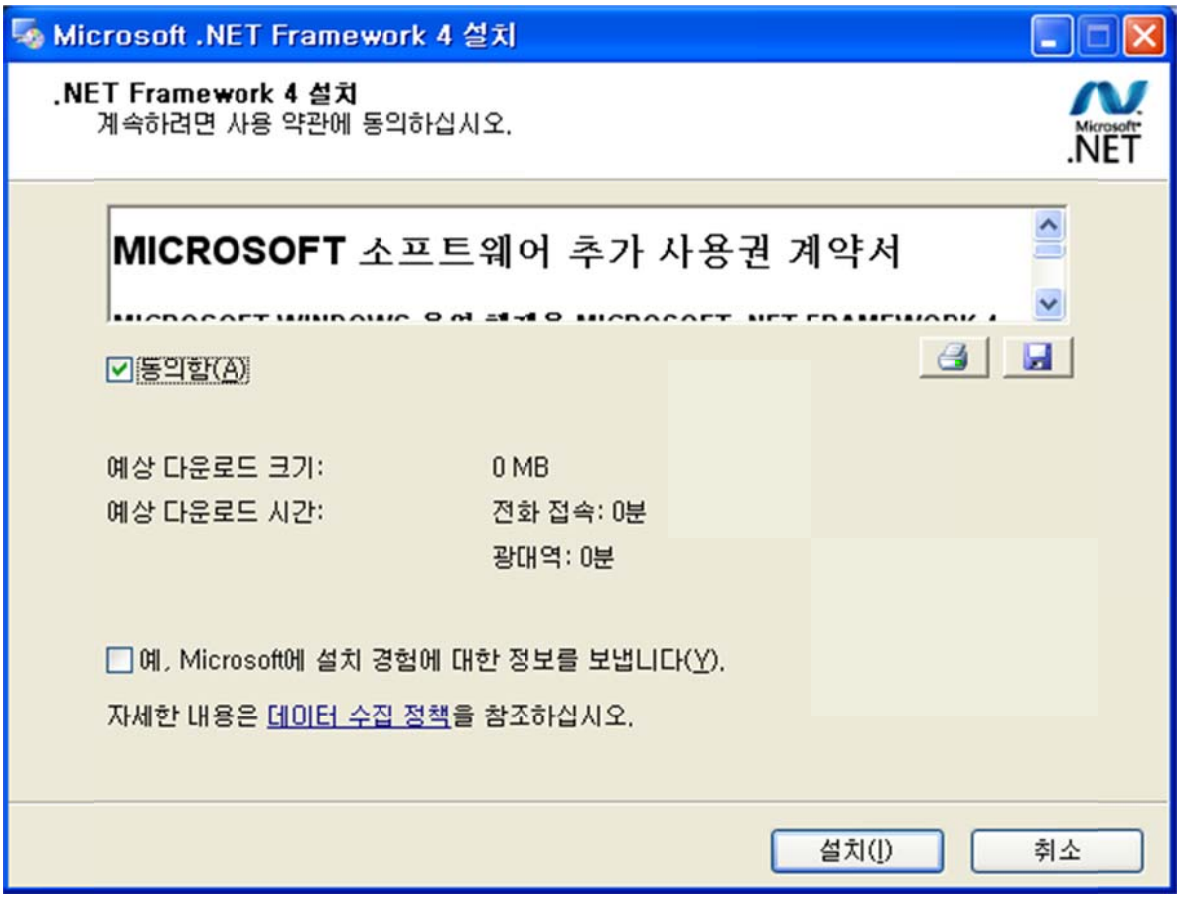
위의 error발생시

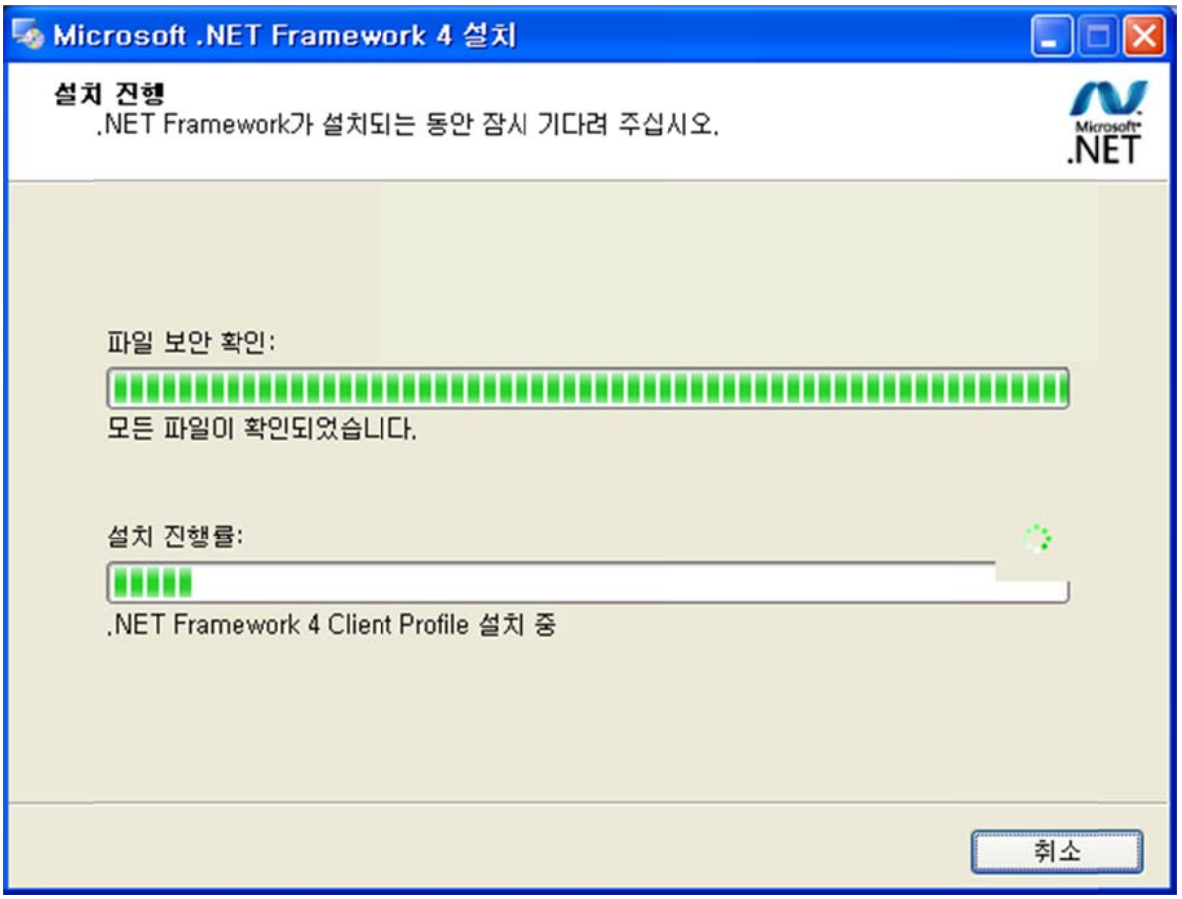
http://www.microsoft.com/en-us/download/details.aspx?id=17718




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 .NET
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.
Microsoft .NET
파일 보안 확인:
모든 파일이 확인되었습니다.
설치 진행률:
.NET Framework 4 Client Profile 설치 중
취소

1.5.2. 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.