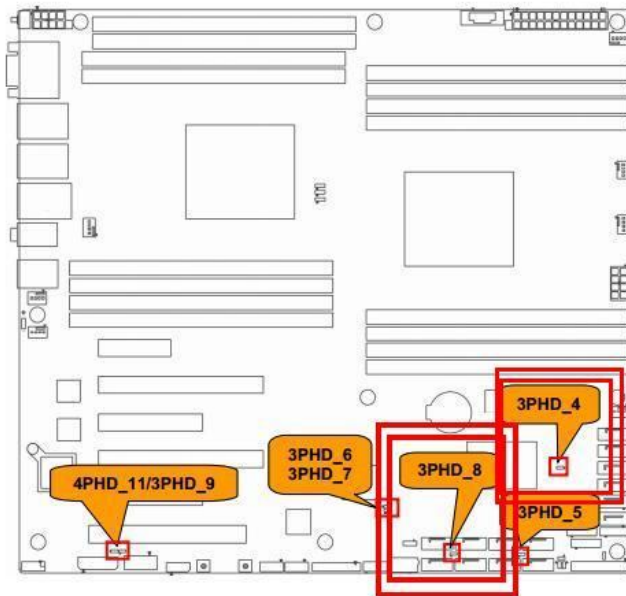


How to Flash a Sandy bridge BIOS to an Ivy Bridge on the S7050:

Step One: Create a DOS bootable flash drive using your preferred utility. Place the BiosUpgradeTool files on this drive. Rename the BIOS file supplied by Tyan for your board to "BIOSFILE.ROM" and place onto the flash drive in the same directory as the BiosUpgradeTool files.

Step Two: Once the system is powered off, remove the AC power, move the "BIOS Overwrite Jumper" to pins 2-3 and move "ME Recovery Mode" jumper to pins 2-3. *See picture below for locations.*



3PHD_8: BIOS Overwrite Jumper

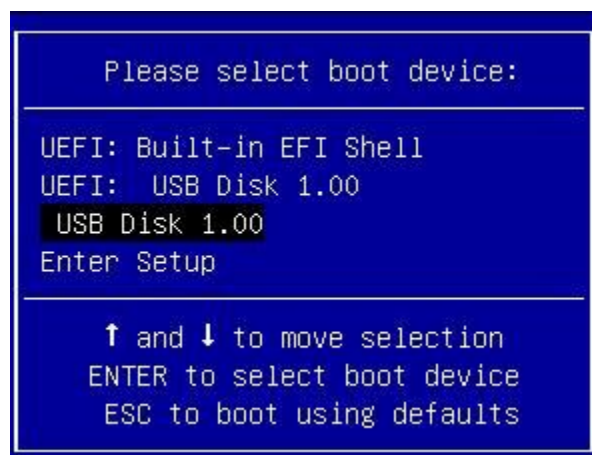
Pin		1	2	3
PIN 1	Signal	NC	MFG_MODE_N	GND

NOTE: 1-2: Normal (Default) 2-3: ME Block can be flash)

3PHD_4: ME RECOVERY MODE Jump

Pin		1	2	3
Signal		NC	FM_ME_RCVR_N	GND
PIN3 ■ ■ ■ PIN1 Normal (Default)		1-2: Normal Mode (Default)		
PIN3 ■ ■ ■ PIN1 Clear CMOS		2-3: ME Inforce Update Mode		

Step Three: Boot to the now Bootable USB drive. This is easiest done by using the F11 boot priority selection rather than changing the boot device in the BIOS.



Step Four: Once booted to DOS, navigate to the directory the flash files have been placed in. Execute the F.bat by typing "F" and pressing enter. Select option 1 to flash the Upgrade BIOS to the board, the system will reboot once flashing is complete. You will notice during boot the BIOS version is now "BIOS UPGRADE Tool"

```
*****
**                               **
**      BIOS ROM UPGRADE TOOL V1.2   Aug 08, 2013      **
**      (C)Copyright 1987-2013, TYAN COMPUTER CORP.    **
**      **--.PLEASE READ INSTRUCTIONS FOR EACH STEP BEFORE CONTINUING.--**      **
*****
Press " 1 " for Option 1 - Pre-Step of IUY/SANDY BRIDGE BIOS ROM upgrade
  INOTE! This step will restart the system.
    Step 1: Rename the Tyan BIOS ROM file to "BIOSFILE.ROM" if
            you have not done so
    Step 2: Power on and go to step 2
Press " 2 " for Option 2 - Upgrade IUY/SANDY BRIDGE BIOS ROM
  INOTE! This step will auto-shutdown the system.
    Step 1: Make sure your AC power is off
    Step 2: Change the "Flash Security Override" jumper
            to the original position
    Step 3: Power on and boot, Updgrade is complete.
Press " 3 " To flash BIOS regularly (NOT upgrading to IUY BRIDGE BIOS)
  INOTE! Please rename the BIOS ROM file to "BIOSFILE.ROM" Before flashing
Press " 4 " to Exit.
choose an option[1,2,3,4]?_
```



Step Five: Once booted back to the Bootable USB drive, execute the F.bat once more. Press 2 to begin the Ivy Bridge BIOS Flashing. The system should power off once the flashing is complete. Turn off the AC power, move the "BIOS Overwrite Jumper" back to pins 1-2 and move "ME Recovery Mode" jumper back to pins 1-2. Apply power and Boot as normal.

```
Press " 4 " to Exit.
choose an option[1,2,3,4]?2
+-----+
|               AMI Firmware Update Utility  v3.05.00               |
|      Copyright (C)2012 American Megatrends Inc. All Rights Reserved.      |
+-----+
Reading flash ..... done
- ME Data Size checking . ok
- FFS checksums ..... ok
- Update success for /FDT!!
- Update success for /GBE!!
- Update success for /PDR!!
- Successful Update Recovery Loader to OPRx!!
- Error when sending Enable Message to ME !!
WARNING : System must power-off to have the changes take effect!
+-----+
|               AMI Firmware Update Utility  v3.05.00               |
|      Copyright (C)2012 American Megatrends Inc. All Rights Reserved.      |
+-----+
Reading flash ..... done
- ME Data Size checking . ok
Erasing All Block ..... done
Updating All Block ..... done
Verifying All Block ..... done
```