

**silentbogo**

Moderator

Staff member

Joined: Nov 20, 2013

Messages: 5,490 (1.41/day)

Location: Kyiv, Ukraine

[System Specs](#)

Apr 30, 2024

#324

bibikalka said:

My question is - how do I flash modded BIOS to Z620? I was happy to flash it in **MANUFACTURING MODE** using fpt, but then it would not boot and would not recover either when it did not like the modded BIOS.

I went straight for an SPI flash chip itself, since at the time I did not even know what half of the jumpers do on my board (and ME Unlock jumper did not do anything at all). I think the only thing I messed up was MAC addresses: I've only changed it in GBE region(both addresses), but it has some sort of check elsewhere, so I had to flash it in software again to make it work properly, because only one NIC was working, but the other one came up with matching MAC instead of +8 HEX.

I'll PM you in a second, once I get to my office. I think I have a hex dump from my board somewhere (I no longer have it).

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**RIG#1:** [Home] Ryzen 7 3800X/GB X470 AORUS Ultra/16GB DDR4/1TB ADATA SX8200 Pro/ GTX1070Ti**RIG#2:** [Office] Xeon E5-2660 / HP Z620 v1 / 16GB DDR3R / 256GB ADATA SX8200 / GTX1060 6G / Lenovo S20 chassis**RIG#3:** [Server] Supermicro x9SCM-F/ E3-1280v2 / 16GB DDR3 / 2x3TB RAID

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**B****bibikalka**

New Member

Joined: Apr 29, 2024

Messages: 11 (0.13/day)

May 10, 2024

#325

Alright, a quick note to all. I was able to get Z620 into this state:  
**MANAGEMENT PLATFORM (ME) IN MANUFACTURING MODE**

The value of this state is that the full BIOS is writable from inside the OS (with FPT.EXE), including the boot block - can upgrade to BB2013. You can also flash a modded BIOS (hard to do by other means through software!) - but ensure that your jumper BIOS recovery mode is working. The external SOC16 clip is pretty tough to get on this BIOS chip!!!

**Quick summary.**

Before doing anything, do a good backup of your undisturbed BIOS, as is - GOOD\_00 [FPT.EXE -d GOOD\_00.BIN]. You will need this.

My sequence was this: start with ME7/3.96 BIOS. flash ME8 with the sp59991

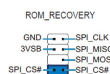
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computer comes up in manufacturing mode, and fpt tool can write anything to anywhere. But!!! The jumper recovery mode does not work in manufacturing mode. So, when you are writing the new BIOS (2013 block, NVME boot, etc), paste these changes into your GOOD\_00 backup (with the fully configured ME).

Remember, bootblock is small and critical, write it by itself, FPT will be able to only write this small area, so it's quick.

If you are writing a modded BIOS, paste that into GOOD\_00, make sure it has BB2013 added to it too. Your goal is to have ME operational as before after this flash, in case you need to do the jumper recovery via the BootBlock (if your modded BIOS is messed up). I could not use the jumper recovery procedure while my ME area in the BIOS was in **MANUFACTURING MODE**.

Attached files: HP official ME7, ME8 clean install, BIOS 2.07. Read this for more details:



#### Z620 Z420 Z820 - Boot Block software only flash / easy ME upg...

I wanted to enable ReBAR on my Z620, and chased a few things around, including the BootBlock guide:

[https://github.com/SuperThunder/HP\\_Z420\\_Z620\\_Z820\\_BootBlock\\_Upgrade](https://github.com/SuperThunder/HP_Z420_Z620_Z820_BootBlock_Upgrade)

Another item that I became curious about is FPT tool, and its manipulations with the Management Engine...

 h30434.www3.hp.com

This can probably work for Z820 too, but need to fish out the correct sp files from HP.

#### HP links for Z620 & Z820 to trigger manufacturing mode.

I am not sure what to do if one already has ME8. Perhaps go to ME7 instead? Or go to ME7 first, full initialize it, back it up, then use ME8/BIOS 2.07 to trigger the manufacturing mode.

Z620, ME7, ME8, BIOS 2.07

<https://ftp.hp.com/pub/softpaq/sp59501-60000/sp59990.html>

<https://ftp.hp.com/pub/softpaq/sp59501-60000/sp59990.exe>

<https://ftp.hp.com/pub/softpaq/sp59501-60000/sp59991.html>

<https://ftp.hp.com/pub/softpaq/sp59501-60000/sp59991.exe>

<https://ftp.hp.com/pub/softpaq/sp59001-59500/sp59186.html>

<https://ftp.hp.com/pub/softpaq/sp59001-59500/sp59186.exe>

Z820, ME7, ME8, BIOS 2.07

<https://ftp.hp.com/pub/softpaq/sp59501-60000/sp59992.html>

<https://ftp.hp.com/pub/softpaq/sp59501-60000/sp59993.exe>  
<https://ftp.hp.com/pub/softpaq/sp59001-59500/sp59187.html>  
<https://ftp.hp.com/pub/softpaq/sp59001-59500/sp59187.exe>

### Attachments



sp59990.exe



sp59991.exe

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Last edited: May 10, 2024

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1freedude, [unclewebb](#), bibikalka

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