

Neousys Technology Inc.

Nuvo-9000 series BIOS update manual

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The following procedure describes the Nuvo-9000 BIOS update process. Before we start, please make sure you have done the following:

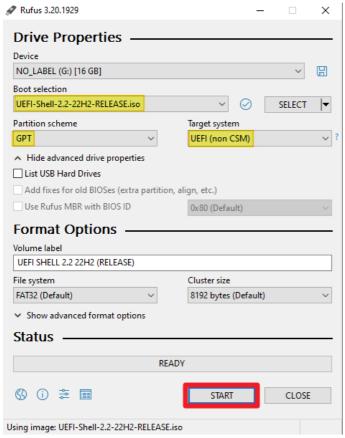
A. Take Note of Any BIOS Configurations

All BIOS settings will be reset to default so it is advised to take note of any BIOS configurations you may have such as ACHI mode, Wake on LAN, Power on after power failure, etc.

B. Boot into EFI-shell Environment

Please prepare a bootable **EFI** USB drive before you begin the BIOS update process.

- 1. Download rufus tool and UEFI shell ISO file.
- 2. Select UEFI-Shell-2.2-22H2-RELEASE.iso to build EFI bootable USB drive.



3. Confirm the efi folder is in the USB drive.





C. Acquire BIOS File

The update BIOS file can be acquired from Neousys Technology technical support staff.

D. BIOS Update Procedure

1. Copy Nuvo-9000 BIOS file to the efi bootable USB drive.



2. Press F12 to boot manager and select EFI USB Device

```
Boot Option Menu

EFI Boot Devices
ubuntu (S6PZNXOT510238P-Samsung SSD 870 EV0 5006B)

EFI USB Device (aigo U330)

† and ↓ to change option, ENTER to select an option, ESC to exit
```

3. Go to BIOS file folder and execute NV9KD003.Build221110.efi to update BIOS.

```
UEF1 Interactive Shell v2.2
edk2-stable202205 (https://github.com/pbatard/UEF1-Shell)
UEF1 v2.80 (INSYDE Corp., 0x71234047)
   pping table
FS1: Alias(s):HD1d0a1:;BLK3:
          PciRoot(0x0)/Pci(0x17, 0x0)/Sata(0x3, 0x0, 0x0)/HD(1, GPT, B47D6550-87C8-47A6-B8C1-423516FE53FD, 0x800, 0x100000)
      FSO: Alias(s):HDOvOb:;BLK1:
           PciRoot(0x0)/Pci(0x14, 0x0)/USB(0x15, 0x0)/HD(1, MBR, 0x00000000, 0x800, 0x39CF800)
     BLK2: Alias(s):
PciRoot(0x0)/Pci(0x17, 0x0)/Sata(0x3, 0x0, 0x0)
           Pc\,iRoo\,t(0x0)/Pc\,i\,(0x17,0x0)/Sata(0x3,0x0,0x0)/HD(2,GPT,4DB6A13A-1FA2-4A53-A535-4BF91F8863FC,0x100800,0x3A285000)
     BLKO: Alias(s):
           PciRoot(0x0)/Pci(0x14, 0x0)/USB(0x15, 0x0)
 ress ESC in 1 seconds to skip startup.nsh or any other key to continue.
F$1:\> F$0:
F$0:\> dir
Directory of: FS0:\
12/14/2022 18:32
12/14/2022 18:32
12/14/2022 18:32 <DIR>
                                   34, 494 autorun. ico
                                   246
16, 384
                                             autorun, inf
            10:48 <DIR>
                                    16, 384
12/14/2022
            18:32
                                       862 README. txt
                            35,602 bytes
           3 File(s)
           2 Dir(s)
12/14/2022
12/14/2022
                               35, 552, 016 NV9KD003. Build221110. efi
             10:49
                                             NV9KD003_221110_Bootguard.bin
                               33, 554, 432
            10:49
                                       227
           3 File(s) 69, 106, 675 bytes
           2 Dir(s)
  60:\NV9KD003.Build221110\> NV9KD003.Build221110.efi_
```



4. Starting to update BIOS.



- 5. Upon reboot, please press "F2" to enter the BIOS setup utility.
- 6.Once you have entered the BIOS setup utility, press "F9" to "Load Optimal Defaults".
- 7. Configure any previous configurations you may have such as ACHI mode, Wake on LAN, Power on after power failure, etc. If not, you may skip this step.
- 8.Please press 'F10' to save and exit.

WARNING Should error message(s) occurred during the BIOS update process, please repeat the BIOS update procedure again. An incomplete BIOS update process will result in the system failing to boot. During the BIOS update process, DO NOT power off the sytem or disconnect the AC power.