



Technical Service Bulletin

To: Allied Service & Help Desk Personnel

From: Allied Electronics, Inc.

Date: May 11, 2021

Re: Changing NeXGen Prime Ethernet Settings via USB

Introduction:

In order to change/set the IP you want on NeXGen Prime you have a few options; the normal route would be to connect using DGS and change it that way. However, if it's not possible to use DGS utility, you can change the IP configuration with USB Drive and NeXGen Prime embedded UEFI Shell environment.

Note:

This process should be used only if it's not possible to communicate with NeXGen Prime via ethernet or serially.

This process requires a monitor and keyboard to be connected to NexGen Prime unit.

USB 2.0 and 3.0 drives are supported.

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Preparation:

1. There are 2 files, supplied by Allied Electronics, need to be copied to USB Drive root folder. Any other external data should be deleted from the USB.
2. The first file **startup.nsh** should be copied as is.
3. The second file **NXGPCFG.INI** has to be modified with required Ethernet settings. It uses the same [NETWORK] section parameters as well-known NeXGen.ini.

Example 1: Set IP, Subnet and gateway

```
[NETWORK]
IpAddress=10.0.0.100
SubNetMask=255.255.255.0
GatewayIpAddress=10.0.0.1
```

Example 2: Set DHCP

```
[NETWORK]
IpAddress=DHCP
```

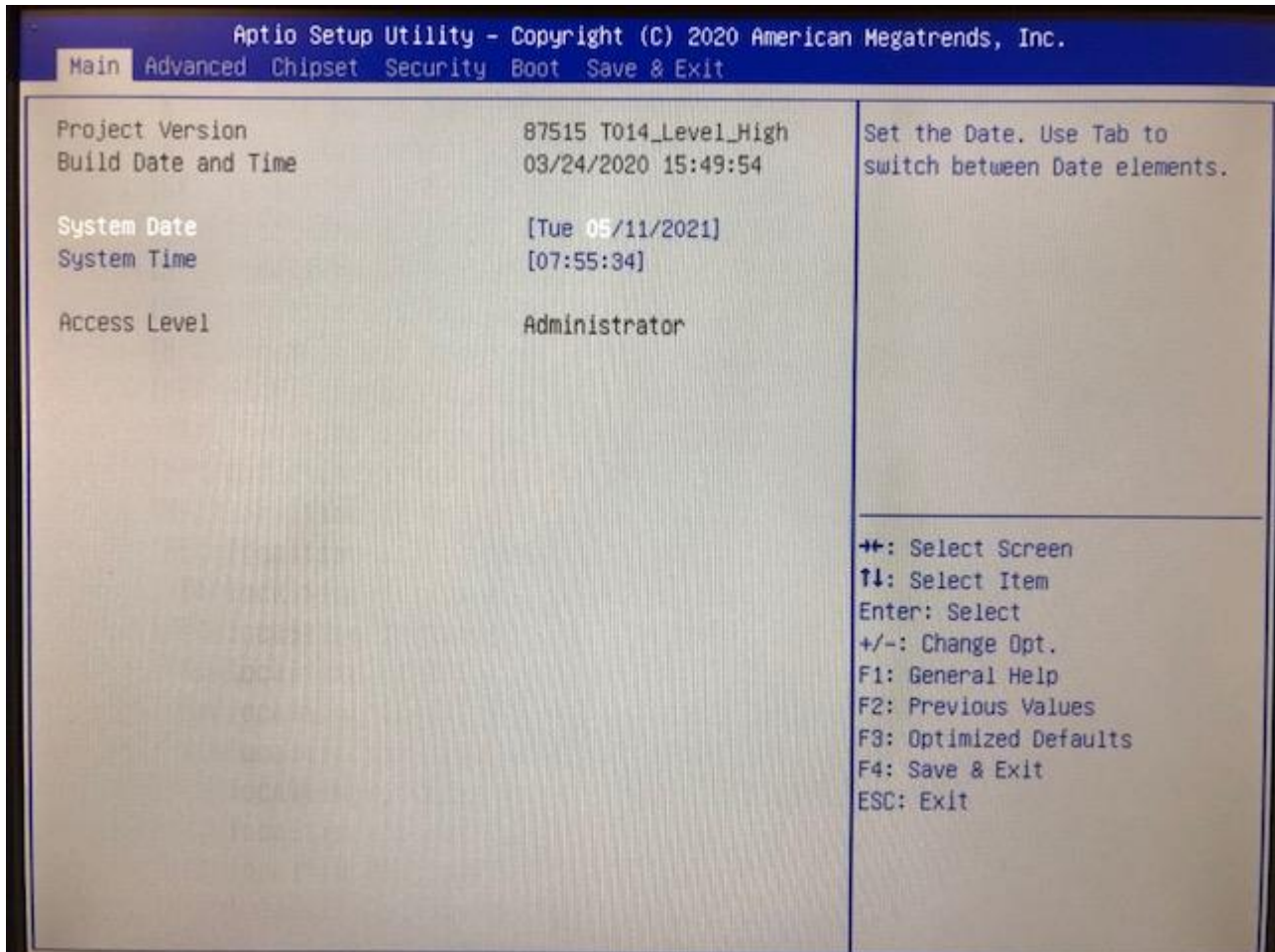
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Process:

1. Turn off NeXGen Prime device. Connect monitor and keyboard. Insert USB Drive with copied 2 files into available USB port.
2. Turn on the device while holding the Esc key on your keyboard. The monitor will show the Main tab of "Aptio Setup Utility".

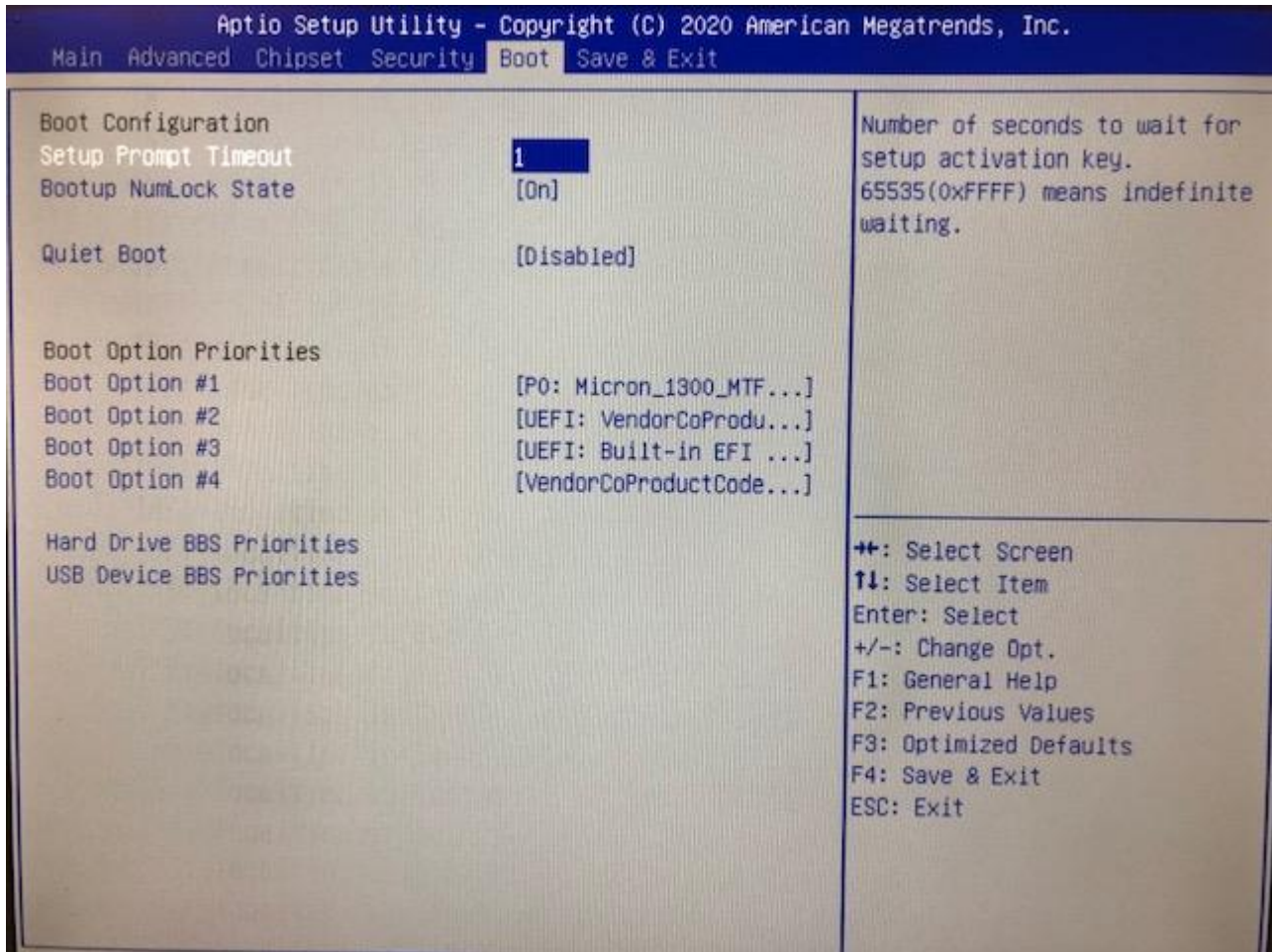


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3. Use Right Arrow key to navigate to the Boot tab.

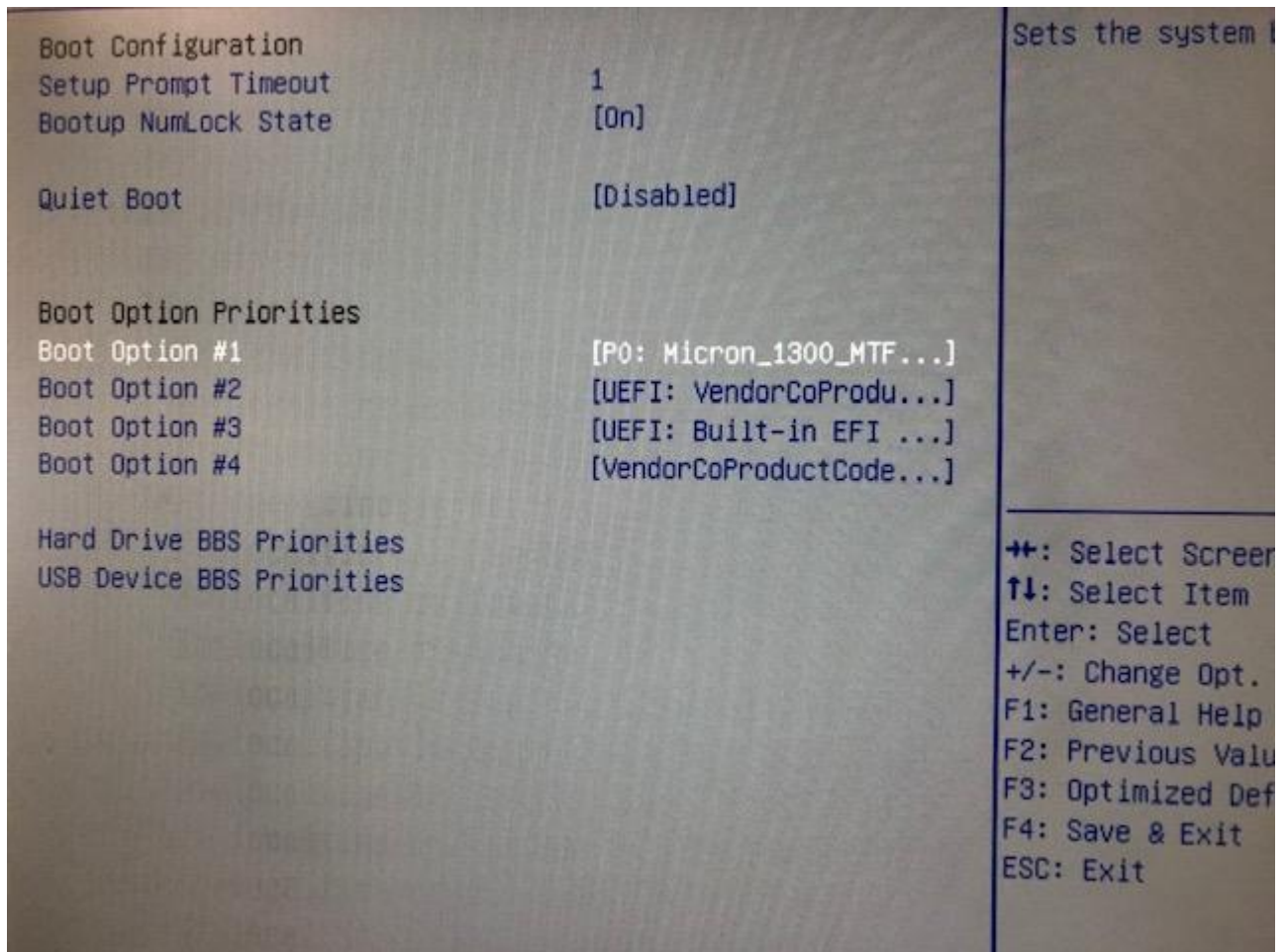


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4. Use Down Arrow key to navigate to the Boot Option #1.

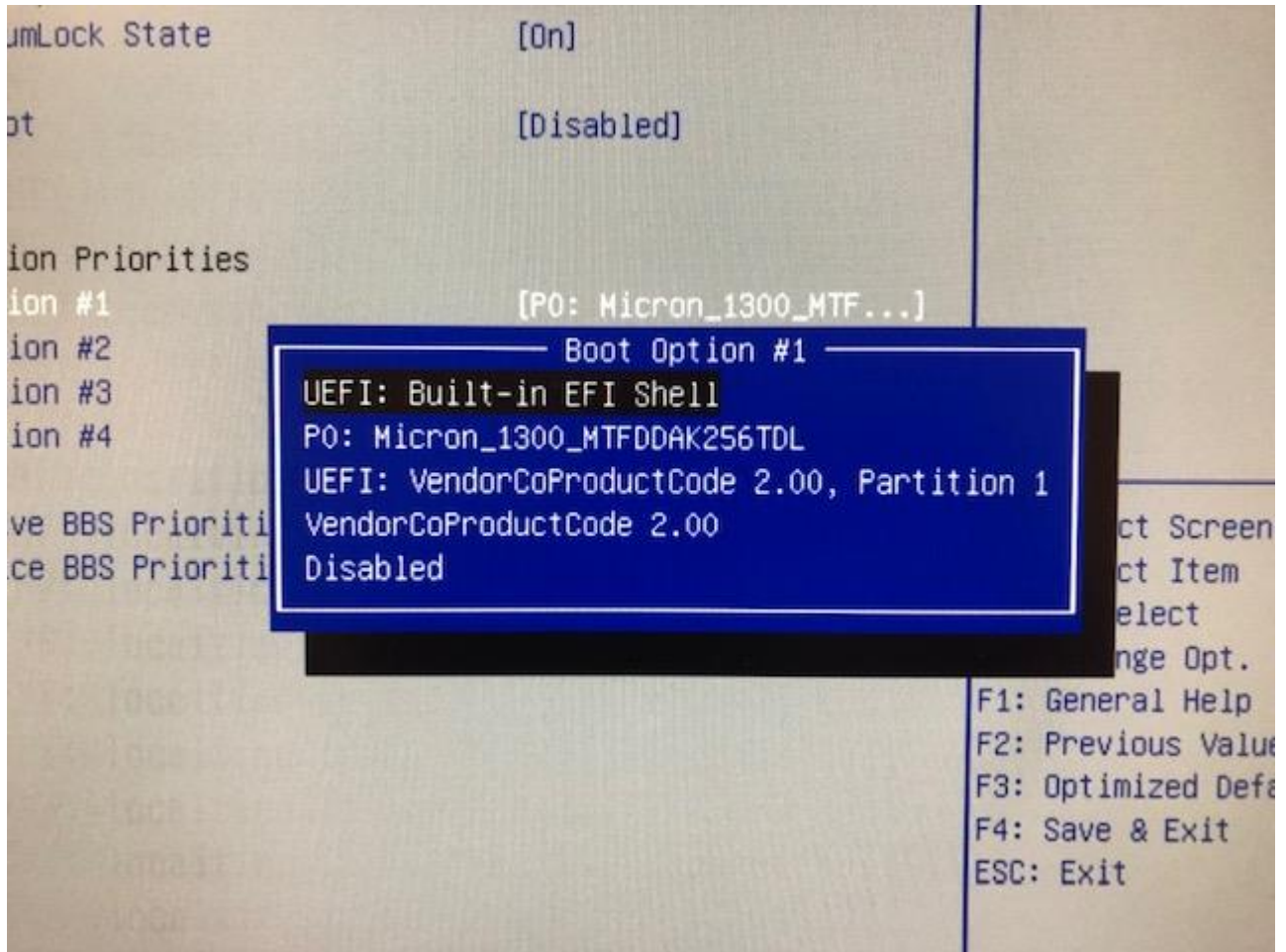


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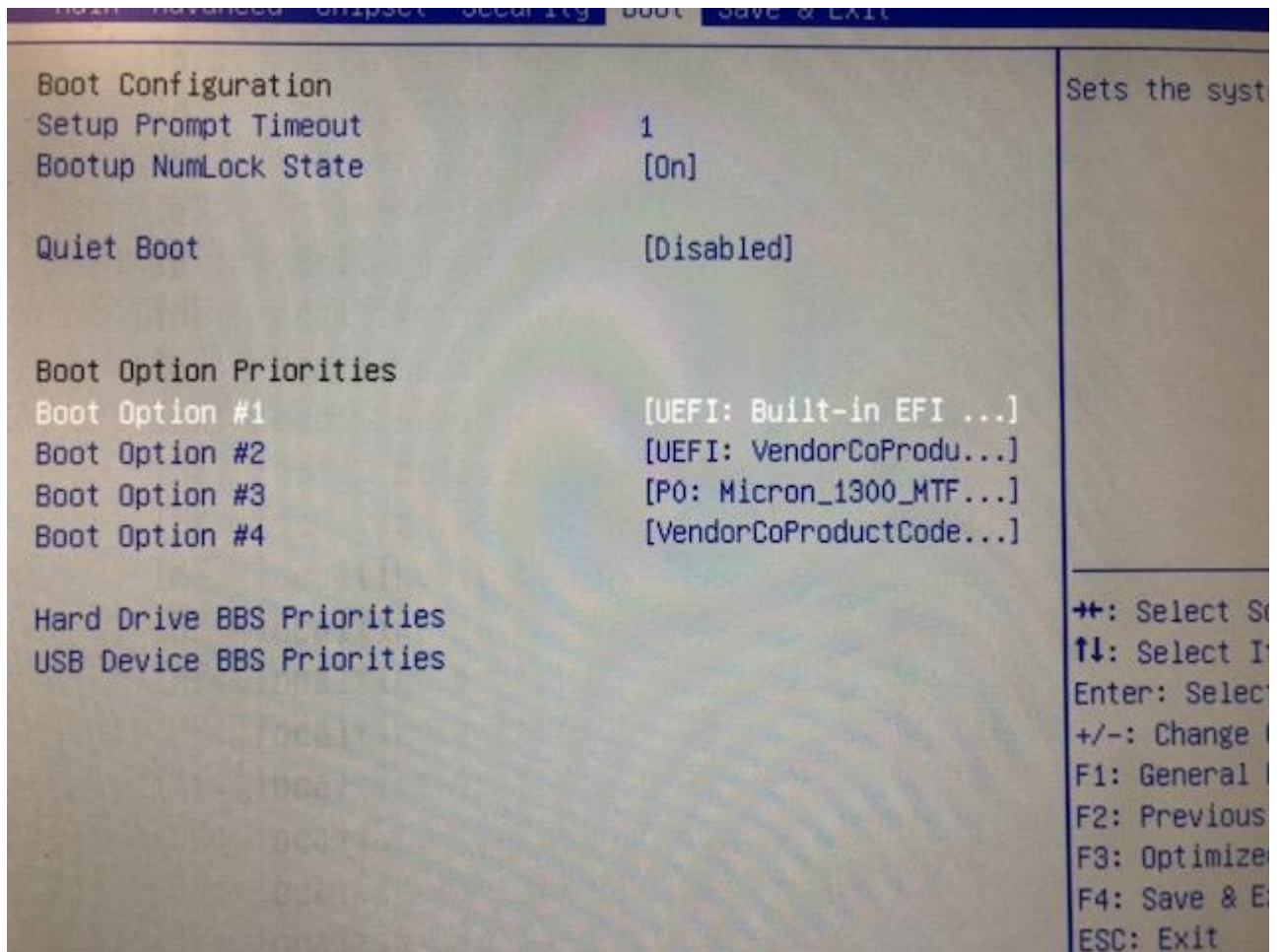
5. Press Enter. Select "UEFI: Built-in EFI Shell" option and press Enter once again.



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6. Press F4 key and press "Yes" to confirm.

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7. You will be navigated to EFI Shell prompt. You can press any key other than ESC or just wait when the script will be started automatically.

```
EFI Shell version 2.40 [5.10]
Current running mode 1.1.2
Device mapping table
fs0 :HardDisk - Alias hd5a65535a1 blk0
      PciRoot(0x0)/Pci(0x13,0x0)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x00020000,0x3F,0x1DCEF8DB)
fs1 :Removable HardDisk - Alias hd6d0b blk1
      PciRoot(0x0)/Pci(0x14,0x0)/USB(0x3,0x0)/HD(1,MBR,0x2F375AB4,0x40,0x1D48FC0)
blk0 :HardDisk - Alias hd5a65535a1 fs0
      PciRoot(0x0)/Pci(0x13,0x0)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x00020000,0x3F,0x1DCEF8DB)
blk1 :Removable HardDisk - Alias hd6d0b fs1
      PciRoot(0x0)/Pci(0x14,0x0)/USB(0x3,0x0)/HD(1,MBR,0x2F375AB4,0x40,0x1D48FC0)
blk2 :BlockDevice - Alias (null)
      PciRoot(0x0)/Pci(0x13,0x0)/Sata(0x0,0xFFFF,0x0)
blk3 :Removable BlockDevice - Alias (null)
      PciRoot(0x0)/Pci(0x14,0x0)/USB(0x3,0x0)

Press ESC in 2 seconds to skip startup.nsh, any other key to continue. _
```

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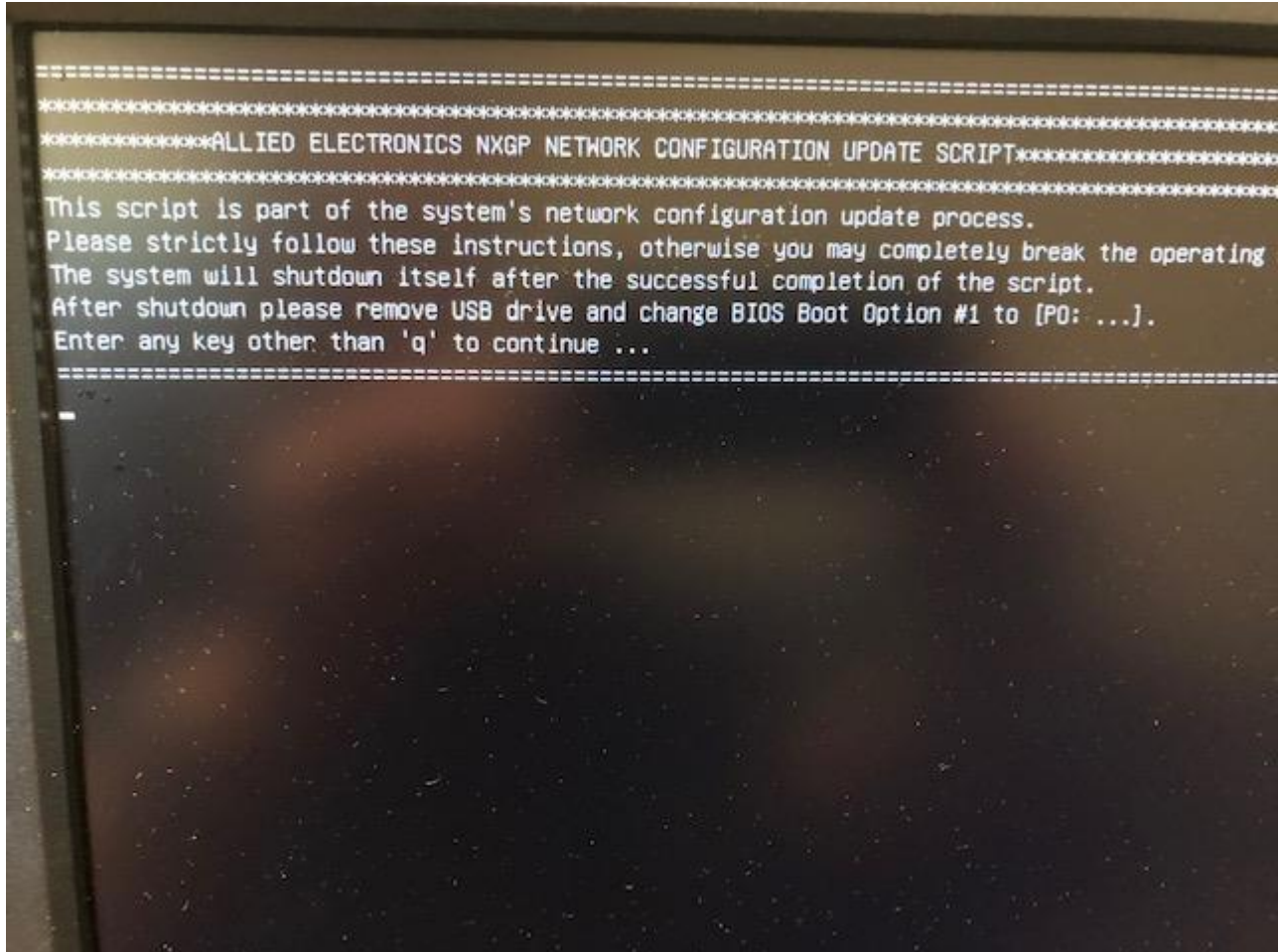
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8. Please read and follow the instruction on the script prompt screen.

Enter any key other than 'q'. The system will shut down itself after the successful completion of the script.

If any error occurs you may need to turn off the system manually, but first contact Allied support and provide the error description from the screen.



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9. After the system automatically shuts down, in the first step, remove the USB drive from the NeXGen Prime.
10. Make sure the Ethernet cable is plugged into the device in case you want use or test connection immediately after updating the IP settings.
11. Turn on the device while holding the Esc key on your keyboard. The monitor will show the Main tab of "Aptio Setup Utility".
12. Use Right Arrow key to navigate to the Boot tab.
13. Use Down Arrow key to navigate to the Boot Option #1.
14. Press Enter. Select "PO: ..." option and press Enter once again.
15. Press F4 key and press "Yes" to confirm.
16. From this step, the system will boot into normal operation mode, update the Ethernet settings, and automatically restart with the new configuration.

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