

Technical Service Bulletin

To: Allied Service & Help Desk Personnel

From: Allied Electronics, Inc.

Date: May 25, 2021

Re: NeXGen Prime Cold Start via USB

Introduction:

In order to cold start NeXGen Prime you have a few options; the normal route would be to connect using DGS and cold start the device. However, if it's not possible to use the DGS utility, you can cold start NeXGen Prime with a USB Drive and the embedded UEFI Shell environment.

Note:

This process should be used only if it's not possible to cold start NeXGen Prime via DGS.

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

USB 2.0 and 3.0 drives are supported.

Preparation:

The file **startup.nsh**, supplied by Allied Electronics, needs to be copied to the root folder of the USB Drive as is. Any other external data should be deleted from the USB.

Process:

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

Aptio Setup Utility Main Advanced Chipset Securit	<mark>– Copyright (C) 2020 Americ</mark> y Boot Save & Exit	can Megatrends, Inc.
Project Version Build Date and Time	87515 T014_Level_High 03/24/2020 15:49:54	Set the Date. Use Tab to switch between Date elements.
System Date System Time	[Tue 05/11/2021] [07:55:34]	
Access Level	Administrator	
		++: Select Screen
		11: Select Item Enter: Select
		F1: General Help F2: Previous Values
in the second		F3: Optimized Defaults F4: Save & Exit ESC: Exit
The second se		

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

Aptio Setup Utili Main Advanced Chipset Secur	t y – Copyright (C) 2020 America Ity <mark>Boot</mark> Save & Exit	n Megatrends, Inc.
Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot	1 [On] [Disabled]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3 Boot Option #4	<pre>[P0: Micron_1300_MTF] [UEFI: VendorCoProdu] [UEFI: Built-in EFI] [VendorCoProductCode]</pre>	
Hand Drive BBS Priorities USB Device BBS Priorities		++: Select Screen f1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

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

Boot Configuration Setup Prompt Timeout Bootup NumLock State	1 [0n]	Sets the system I
Quiet Boot	[Disabled]	
Boot Option Priorities		
Boot Option #1	[PU: MICPON_1300_MIF]	
Boot Option #3	[UEFI: Built-in FFI]	
Boot Option #4	[VendorCoProductCode]	
Hard Drive BBS Priorities		++: Select Screen
USB Device BBS Priorities		11: Select Item Enter: Select
		+/-: Change Opt.
		F2: Previous Valu
		F3: Optimized Def
		F4: Save & Exit
		COUT EXIT
	ing a stat shall be shall be	

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



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Boot Configuration Setup Prompt Timeout Bootup NumLock State	1 [0n]	Sets the syst
Quiet Boot	[Disabled]	
Boot Option Priorities		
Boot Option #1	[UEFI: Built-in EFI]	
Boot Option #2	[UEFI: VendorCoProdu]	
Boot Option #3	[PO: Micron_1300_MTF]	
Boot Option #4	[VendorCoProductCode]	
Hard Drive BBS Priorities		++: Select So
USB Device BBS Priorities		tl: Select I
		Enter: Select
		+/-: Change
		F1: General
		F2: Previous
		F3: Optimize
		F4: Save & E
		ESC: Exit

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

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

-	
EFI Shel	1 version 2.40 [5.10]
Current	running mode 1.1.2
Device m	wepping table
fs0	:HardDisk - Alias hd5a65535a1 blk0
a second second	PciRoot(0x0)/Pci(0x13,0x0)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x00020000,0x3F,0x1DCEF8DB
fs1	Removable HardDisk - Alias hd6d0b blk1
1.000	PciRoot(0x0)/Pci(0x14,0x0)/USB(0x3,0x0)/HD(1,MBR,0x2F375AB4,0x40,0x1D48FC0)
b1k0	:HardDisk - Alias hd5a65535a1 fs0
	PciRoot(0x0)/Pci(0x13,0x0)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x00020000,0x3F,0x1DCEF8DB
blk1	:Removable HardDisk - Allas hd6d0b fs1
	PciRoot(0x0)/Pci(0x14,0x0)/USB(0x3,0x0)/HD(1,MBR,0x2F375AB4,0x40,0x1D4BFC0)
b1k2	:BlockDevice - Alias (null)
-	PciRoot(0x0)/Pci(0x13,0x0)/Sata(0x0,0xFFFF,0x0)
b1k3	Removable BlockDevice - Alias (null)
	PciRoot(0x0)/Pci(0x14,0x0)/USB(0x3,0x0)
A Contractor	
Press ES	SC in 2 seconds to skip startup.nsh, any other key to continue.
1.1	
Statistics.	

8. Please read and follow the instructions 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.

*****	*******
*******************ALLIED E	ECTRONICS NXGP COLD START SCRIPT************************************
his script is part	of the system's COLD START process.
lease strictly foll	but these instructions, otherwise you may completely break the operating system
ne system will snut Ifter shutdown pleas	e remove USB drive and change BIOS Boot Option #1 to [PO:].
inter any key other	than 'q' to continue

- 9. After the system automatically shuts down (from the first step), remove the USB drive from the NeXGen Prime.
- 10. Turn on the device while holding the Esc key on your keyboard. The monitor will show the Main tab of "Aptio Setup Utility".
- 11. Use the Right Arrow key to navigate to the Boot tab.
- 12. Use the Down Arrow key to navigate to the Boot Option #1.
- 13. Press Enter. Select the "PO: ..." option and press Enter once again.
- 14. Press the F4 key and press "Yes" to confirm.
- 15. From this step, the system will boot into normal operation mode and automatically Cold Start.