

## 2021 to 2025

# Q10062102 - How to create a bootable USB drive to access the default EFI shell to launch the McBIOS RAID manager?

To access the UEFI menu, create a bootable USB drive with UEFI Shell (X64):

1. Format your USB drive as FAT32
2. Create the following directory structure in the root of the USB drive
  - /efi/boot
3. Download the UEFI Shell (Shell.efi) from the following link
  - For 64bit BIOS:  
<https://github.com/tianocore/edk2/blob/UDK2018/ShellBinPkg/UefiShell/X64/Shell.efi>
  - Others BIOS:  
<https://github.com/tianocore/edk2/tree/UDK2018/ShellBinPkg/UefiShell>
4. Rename the UEFI shell file to Bootx64.efi
  - 32bit : Bootia32.efi
5. Copy the UEFI shell (now Bootx64.efi) to the /efi/boot directory
6. With the USB thumb drive inserted into any of the back-panel USB ports of the M/B board, boot the system into the EFI shell.

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```
UEFI Interactive Shell v2.2
EDK II
UEFI v2.60 (American Megatrends, 0x0005000D)
Mapping table
  FS0: Alias(s):HD0v0d0b:;BLK1:
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0x15,0x0)/USB(0x3,0x0)/HD(1,MBR,0x35EC1
3F1,0x1F80,0x1CDE080)
  FS1: Alias(s):HD1a65535a1:;BLK3:
        PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x046EBBE9,0x
800,0x112800)
  FS2: Alias(s):HD1a65535a2:;BLK4:
        PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)/HD(2,MBR,0x046EBBE9,0x
113000,0x744E0C7E)
  FS3: Alias(s):HD1a65535a3:;BLK5:
        PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)/HD(3,MBR,0x046EBBE9,0x
745F4000,0x111800)
  BLK0: Alias(s):
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0x15,0x0)/USB(0x3,0x0)
  BLK2: Alias(s):
        PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)
Press ESC in 1 seconds to skip startup.nsh or any other key to continue.
Shell> _
```

**NOTE:** Reboot to the USB drive (this will boot to UEFI shell).

- You may need to enable booting from USB in BIOS setup.
- You will need to disable UEFI Secure Boot to boot to the UEFI Shell.

7. At the prompt type: ``drivers`` and press **Enter**, located under the Device mapping table.

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```
UEFI Interactive Shell v2.2
EDK II
UEFI v2.60 (American Megatrends, 0x0005000D)
Mapping table
FS0: Alias(s):HD0v0d0b;BLK1:
    PciRoot(0x0)/Pci(0x14,0x0)/USB(0x15,0x0)/USB(0x3,0x0)/HD(1,MBR,0x35EC1
3F1,0x1F80,0x1CDE080)
FS1: Alias(s):HD1a65535a1;BLK3:
    PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x046EBBE9,0x
800,0x112800)
FS2: Alias(s):HD1a65535a2;BLK4:
    PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)/HD(2,MBR,0x046EBBE9,0x
113000,0x744E0C7E)
FS3: Alias(s):HD1a65535a3;BLK5:
    PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)/HD(3,MBR,0x046EBBE9,0x
745F4000,0x111800)
BLK0: Alias(s):
    PciRoot(0x0)/Pci(0x14,0x0)/USB(0x15,0x0)/USB(0x3,0x0)
BLK2: Alias(s):
    PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x0,0xFFFF,0x0)
Press ESC in 1 seconds to skip startup.nsh or any other key to continue.
Shell> drivers_
```

8. At the prompt type: ``drvcfg`` and press ***Enter***, driver configuration under the UEFI shell screen.

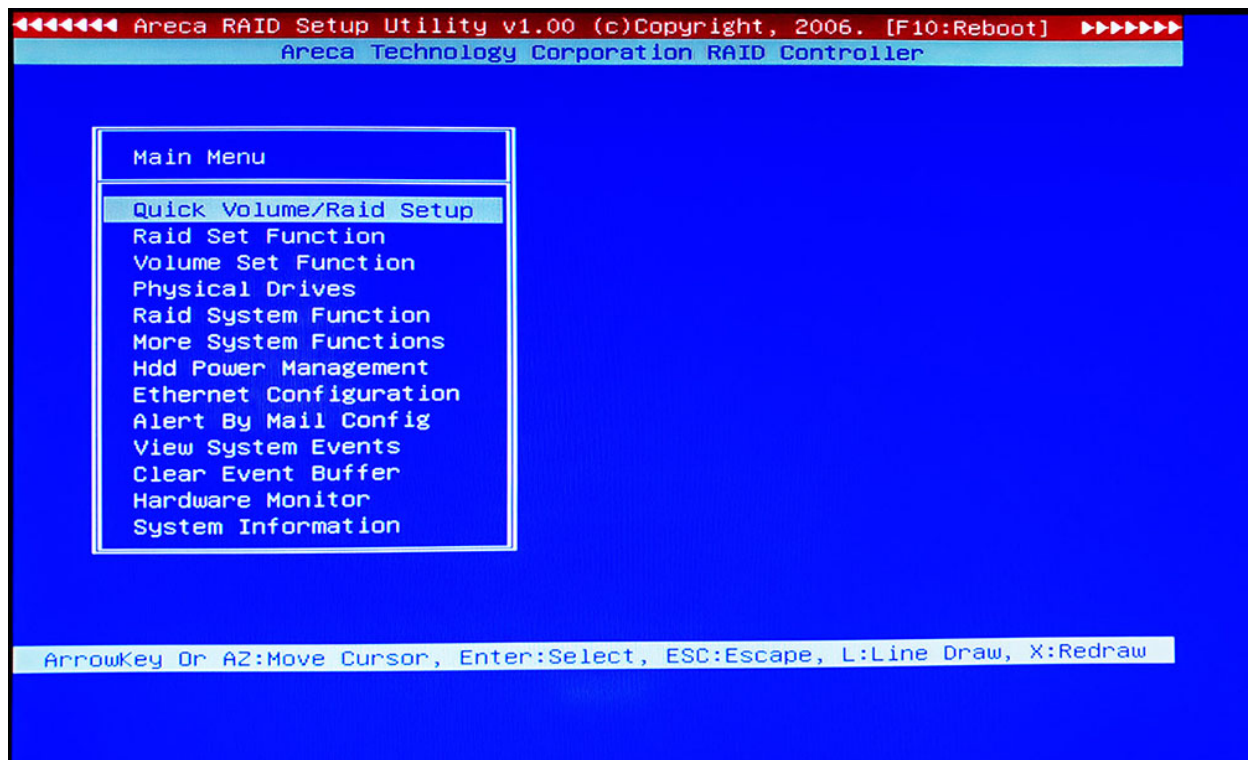
```
7-408A-AACC-731CFB7F1DD7)
132 00000010 ? - - - - AMI PS/2 Driver FvFile(5FCECF6B-5FA
4-4570-8163-0CF72A9C04C5)
133 0000000A ? - - - - HttpDxe FvFile(2366C20F-E15
A-11E3-8BF1-E4115B28BC50)
134 0000000A ? - - - - HttpDxe FvFile(2366C20F-E15
A-11E3-8BF1-E4115B28BC50)
135 00000000 ? - - - - DNS Network Service Driver FvFile(B219E140-DFF
C-11E3-B956-0022681E6906)
136 00000000 ? - - - - DNS Network Service Driver FvFile(B219E140-DFF
C-11E3-B956-0022681E6906)
13A 0000000A D - - 1 - FAT File System Driver FvFile(961578FE-B6B
7-44C3-AF35-6BC705CD2B1F)
13C 00000001 ? - - - - <null string> FvFile(2F2295B6-1BB
6-4CB7-BB9E-15C2C3424277)
13D 00000001 ? - - - - <null string> FvFile(2F2295B6-1BB
6-4CB7-BB9E-15C2C3424277)
1A8 00000010 ? - - - - AMI CSM Block I/O Driver FvFile(25ACF158-DD6
1-4E64-9A49-55851E9A26C7)
1A9 00000024 B - - 1 1 BIOS[INT10] Video Driver FvFile(29CF55F8-B67
5-4F5D-8F2F-B87A3ECFD063)
1AA 00000010 ? - - - - <null string>
26A 00000010 D X X 1 - Areca RAID Ctlr v2.06 <2021/01/05> Offset(0xA034,0xDBF
F)
Shell> drvcfg_
```

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```
Shell> drvcfg
Handle[104]          HII Config Access
Handle[193]          HII Config Access
Handle[280]          HII Config Access
Handle[284]          HII Config Access
Driver[26A] Ctrl[24F] Lang[eng] Driver Configuration
Shell> _
```

9. At the prompt type: ``drvcfg -s 26a 24f`` and press **Enter**, areca McBIOS configuration under the UEFI shell screen

```
Shell> drvcfg
Handle[104]          HII Config Access
Handle[193]          HII Config Access
Handle[280]          HII Config Access
Handle[284]          HII Config Access
Driver[26A] Ctrl[24F] Lang[eng] Driver Configuration
Shell> drvcfg -s 26a 24f_
```



Unique solution ID: #1950

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