## BIOS modification of Orb and Orb XF consoles to allow for software updates via USB bootable drives.

Please follow the below information if you are experiencing issues installing software on your Orb or OrbXF console with a USB bootable drive.

WARNING: Misuse could result in the console not booting, please consult with Zero 88 service department before carrying these instructions out.

The following instructions detail how to modify the Bios setting for customers that are experiencing issues with updating software on Orb & OrbXF consoles using large capacity USB drives or with drives created using Windows 8 or 10.

A monitor and keyboard are required to carry out the modifications.

- 1. Without the desk being powered on connect the keyboard and monitor.
- 2. Hold F2 on the keyboard and power the desk on
- 3. You should be presented with a pass code prompt:

PhoenixBIOS Setup Utility
Enter Password (
Enter Accepts Esc Clears

- 4. At the password prompt release F2 and type TBD, then press enter.
- 5. The Bios Info screen will be displayed:

PhoenixBIOS Setup Utility								
Info Main A	dvanced S	Secur i ty	Power	Boot	Exit			
Bios Version	MODDIDADA							
BIOS Date	MODBR131							
bius pate	06/27/08							
Board Name	MODB							
Board Class	CPU							
Serial Number	YXE3D0019							
Manufacturing Date	04/08/2010							
Hardware Revision	05.00							
Boot Counter	0893							
cou .	C 1 (7) 1			1 FOCU				
CPU Type	Celeron(R)	1 processo	or	1.50GHz				
CPU Speed	1500 MHz							
Microcode:	32 (0x20)							
System Memory	640 KB							
Extended Memory	514048 KB							
Shadow Ram	384 KB							
F1 Help 11 Select	t Item -/•		Values		etup Defaults			
Esc Exit • Selec	t Menu Enter	Select	▶ Sub-Menu	F10 S	ave and Exit			



6. Tap the left arrow key twice to open the Boot Option screen:

PhoenixBIOS Setup Utility							
Info	Main	Advanced	Security	Power	Boot Exit		
Root	priority or				Item Specific Help		
1:		uei .					
2:					Keys used to view or		
3:	COD CONTON				configure devices:		
	IDE 0:				Up and Down arrows		
5:	IDE 1:				select a device.		
6:	IDE 2:				$\langle + \rangle$ and $\langle - \rangle$ moves		
7:	IDE 3: CF	Card-(SS)			the device up or down.		
8:					<pre> <f> and <r> specifies</r></f></pre>		
Exclu	ided from bo	ot order:			the device fixed or		
:	USB FDC:				removable.		
					<pre> <x> exclude or include</x></pre>		
:	USB ZIP:				the device to boot.		
:	USB LS120				<shift +="" 1=""> enables or</shift>		
:	PCI BEU:				disables a device.		
:	PCI SCSI:	an in Coulo			$\langle 1 - 4 \rangle$ Loads default		
:	bootable H	dd-in Cards			boot sequence.		
81 H	eln 11 Se	elect Item -	Change U	Ja lues	P9 Setup Defaults		
			nter Select				
36 1	AIL OF	Tect nenu A	JEEL JEIELL	Jubriel	in The Save and EXIT		

- 7. To allow booting from high capacity USB drives or drives created on Windows 8 or 10, the "USB HDD :" option needs to be at the top of the Boot priority list.
- 8. You may find this in the Excluded list so will need to move this to the Boot list. Use the arrow down key to highlight the option and press "x" (lower case). This will appear at the bottom of the Boot Priority list:

			Item Specific Help
Boot	priority o	rder :	
1:	GOD HUI .		
	USB CDROM	1	Keys used to view or
	IDE CD:		configure devices:
	IDE 0:		Up and Down arrows
	IDE 1:		select a device.
	IDE 2:		<+> and <-> moves
7:	IDE 3: CF	Card-(SS)	the device up or down.
			<pre></pre>
Exclu	ded from b	oot order:	the device fixed or
:	USB FDC:		removable.
:	USB ZIP:		<pre></pre>
:	USB LS120	1	the device to boot.
:	PCI BEU:		<pre></pre>
:			disables a device.
1	Bootable	Add-in Cards	$\langle 1 - 4 \rangle$ Loads default
			boot sequence.



9. Once this is in the Boot list use the + key to move it up the list to the top:

PhoenixBIOS Setup Utility							
Info	Main	Advanced	Security	Power	Boot Exit		
					Item Specific Help		
Boot	priority o	rder :					
18	USB HDD						
	USB KEY:				Keys used to view or		
3:	USB CDROM	:			configure devices:		
4:	IDE CD:				Up and Down arrows		
5:	IDE 0:				select a device.		
	IDE 1:				<+> and <-> moves		
	IDE 2:				the device up or down		
	IDE 3: CF				<pre></pre>		
Exclu	ded from b	oot order:			the device fixed or		
-	USB FDC:				removable.		
÷.	USB ZIP: USB LS120	2			<pre><x> exclude or includ the device to hoot.</x></pre>		
-	PCI BEU:	i.			<pre><shift +="" 1=""> enables o</shift></pre>		
	PCI BLU:				disables a device.		
		Add-in Cards			$\langle 1 - 4 \rangle$ Loads default		
•	DUULAUTE I	iuu in carus			boot sequence.		
					boot sequence.		
01 H	elp 11 Se	elect Item -	/• Change U	Ja lues	FS Setup Defaults		
		elect Menu D		Sub-Mer			

10. When this is at the top of the list press F10 and confirm the changes by pressing enter. The console will reboot and load as normal. Once it has booted, insert the bootable USB drive formatted with ZerOS and turn the desk off and back on. This should then boot to the upgrade screen.

If you have any questions or need further assistance, please contact support@zero88.com

