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:

	PhoenixBI	OS Setup	Utility		
Info Main A	dvanced S	Becur i ty	Power	Boot	Exit
Bios Version	MODBR131				1
BIOS Date	06/27/08				
Board Name	MODB				
Board Class	CPU				
Serial Number	YXE3D0019				
Manufacturing Date	04/08/2010				
Hardware Revision	05.00				
Boot Counter	0893				
CPIL Tune	Celeron(R)	1 nrocess	ır	1 50687	
CPII Sneed	1500 MHz	. p. 00000		1. OV UNL	
Microcode:	32 (0x20)				1
Contraction of the second s					
System Memory	640 KB				
Extended Memory	514048 KB				
Shadow Ram	384 KB				•
Malo 11 Selec	t Item -/•	Change	Values	199	Setum Defaults
Esc Exit • Selec	t Menu Enter	Select	▶ Sub-Menu	F10	Save and Exit

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

Info	Main	Advanced	Security	Power	Boot	Exit
					Item Sp	ecific Help
Boot p	riority o	rder :				
1:	USB KEY:					
2:	USB CDROM	:			Keys used	to view or
3:	IDE CD:				configure	devices:
4:	IDE 0:				Up and Do	wn arrows
5:	IDE 1:				select a	device.
6:	IDE 2:				<+> and <	-> moves
7:	IDE 3: CF	Card-(SS)			the device	e up or down.
8:					<f> and <</f>	r> specifies
Exc lud	ed from b	oot order:			the device	e fixed or
:	USB FDC:				removable	
					<x> exclu</x>	de or include
:	USB ZIP:				the device	e to boot.
: 1	USB LS120	÷			<shift +<="" td=""><td>1> enables or</td></shift>	1> enables or
:	PCI BEU:				disables .	a device.
:	PCI SCSI:				<1 - 4> L	oads default
1	Bootable	Add-in Cards			boot sequ	ence.
1 He	lp 11 Se	elect Item -	/• Change U	Jalues	F9 Se	tup Defaults
isc Ex	it S	elect Menu 🛽 🗈	nter Select 🕨	 Sub-Mer 	iu F10 Sa	ve 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:

PhoenixBIOS Setup Utility							
Info	Main	Advanced	Secur i ty	Power	Boot	Exit	
Boot v	nionitu or	doni			Item Spo	ecific Help	
Boot p 1: 2: 3: 4: 5: 6: 7: 8: 7: 8: 7: 8: 7: 8: 7: 8: 7: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	riority or USB KEY: USB CDROM- IDE CD: IDE 0: IDE 2: IDE 3: CF USB 4T00: IDE 4F00 b USB FDC: USB ZIP: USB ZIP: USB ZIP: USB ZIP: PCI SECI PCI SCSI: Bootable f	rder: Card-(SS) pot order: : Hdd-in Cards			Keys used configure Up and Dou select a co <+> and <- the device <fd <1<br="" and="">the device removable <x> exclue the device <shift +="" 1<br="">disables a <1 - 4> Lo boot seque</shift></x></fd>	to view or devices: wm arrows device. -> moves e up or down. r> specifies e fixed or de or include e to boot. 1> enables or a device. oads default ence.	
F1 He	lp 11 Se	elect Item -	Change Select	Values Sub-Men	F9 Set	tup Defaults	



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

		Phoen	ixBIOS Setup I	Itility		
Info	Main	Advanced	Secur i ty	Power	Boot	Exit
					Item Sp	ecific Help
Boot	priority o	rder :			•	
2:	USB KEY:				Keys used	to view or
3:	USB CDROM	:			configure	devices:
4:	IDE CD:				Up and Do	wn arrows
5:	IDE 0:				select a	device.
6:	IDE 1:				<+> and <	-> moves
7:	IDE 2:				the devic	e up or down.
8:	IDE 3: CF	Card-(SS)			<f>> and <</f>	r> specifies
Exclu	ded from b	oot order:			the devic	e fixed or
:	USB FDC:				removable	
:	USB ZIP:				<x> exclu</x>	de or include
	USB LS120	:			the devic	e to boot.
:	PCI BEU:				<shift +<="" td=""><td>1> enables or</td></shift>	1> enables or
	PCI SCSI:				disables	a device.
:	Bootable (Add-in Cards			<1 - 4> L	oads default
					boot segu	ence.
1 H	elp 11 Se	elect Item 🚽	/• Change	Jalues	F9 Se	tup Defaults
lsc E	xit • Se	elect Menu 🛽 🗈	nter Select (Sub-Mer	nu F10 Sa	we and Exit

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

