

Procedure

A Guide on How to Change the BIOS Battery in a CDC six and seven Fitted with a 19196 Power Distribution Board



Description

A Guide on How to Change the BIOS Battery in a CDC six and CDC seven fitted with a 19196 Power Distribution

Contact

Cadac Holdings Limited One New Street Luton Bedfordshire LU1 5DX England

Tel: +44 1562 404 202

Email: support@cadac-sound.com

www.cadac-sound.com



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Introduction

This document is a guide on how to change the BIOS battery in the CDC six and seven fitted with the older 19196 power distribution board. **IMPORTANT:** If you have a CDC five, seven-s or a CDC six fitted with a later 19224 power distribution board then please refer to the document "*A Guide on How to Change the BIOS Battery in a CDC five, six and seven-s fitted with a 19224 Power Distribution Board*" which will guide you through the process of the changing the battery.

This process **must** be carried out by qualified Cadac representatives.

Tools Required

You will require nonconductive tool to remove the battery from the holder.

You will require a replacement CR2032 3V Lithium battery. Example below:



A T-10 Torx driver will be needed to remove front panel screws:



USB Keyboard:







Changing the Battery

Power up the console and backup your console's show files to a USB memory stick. This process does not wipe the memory, but it is good practice to have a backup copy in case something goes wrong. Power down the console and unplug the unit from the mains supply.

To access the **battery**, it will require the unscrewing of all the retaining screws (**T-10 Torx**) on the panel containing the **large 23.5**" screen. Note: The battery on the CDC seven / seven-s is under the left-hand screen.

It is not necessary to remove the screen, but it is advisable to open and prop up the panel from the top, pivoting on the edge nearest the faders. A suitable length of wood (approx. 20cm) may be useful to hold open the panel to avoid having to close the panel, or holding, during the process.

Position of the battery on the PC motherboard:







Use a suitable implement (non-conductive) to release the clip securing the old battery and remove it.

Fit the new CR2032 3V lithium cell battery; use a type which is a non-rechargeable, taking care not to insert the battery the wrong way around. Positive (+) terminal facing out.

You can now put the screen back down and fix it in place with the Torx screws.

You will now need to set the BIOS.

Access the BIOS Settings

Connect the USB keyboard to one of the USB ports on the console - there are a number of ports on the console which can be found on the front panel, near the headphone jack or on the rear panel.

Power up the console.

To get into the BIOS press F2 or Delete on a USB keyboard when the console is starting / booting up.

The console will now boot into the BIOS.

When in the BIOS press **F7** on the USB keyboard to enter the **Advanced Mode BIOS** to update the settings. Alternatively, on the touch screen press **Advanced Mode**.

UEFI BIOS UUIII - EZ MO				
09:59* @ English				
Information CPU Tex 2170 A BIOS Viri, 3802 Intellity, Core(Tb)/7-6700 CPU @ 3.40GHz Speed, 3400 MHz Speed, 3400 MHz Memory, 16344 MB (CDPH 2133MHz)	nperature CPU Core 1.120 Motherbo 3\$*C 33*C	Voltage EZ System V Click the ison profile for im bard Temperature	Tuning the how to opply a pre-contract proved system cardotreas of the generation of the system of the system of the system generation of the system of	
DRAM Status DIMA, Ar. Corsar 8192MB 2133MHz DIMA, Az. Corsar 8192MB 2133MHz DIMM, 81: N/A DIMM, 82: N/A	SATA Information MJP KINGSTON SM228053240G (240)	.008) < Boot Pric Choose one	Normal >	
X.M.P. Disabled •	Intel Rapid Storage Schnolo	gy O P1 (2	: KINGSTON 5M228053240G 28936MB) .::	
FAN Profile CPU FAN 105 RPM CHA2 FAN CHA2 FAN CHA3 FAN CHA4 FAN CHA4 FAN CHA4 FAN CHA5 FAN CHA7 FAN CHA7 FAN N/A CHA7 FAN CHA7 FAN N/A				
	QFan Control		oot Menu(F8)	4
	Default(F5)	Save & Exit(F10) Advan	ced Mode(F7)	an FAQ
	Adv	vanced Mode		







BIOS Boot Settings

The Boot setting screen will look like below. Select Boot from the top menu tab bar:

09/24/2018 10:00 Clark Bry Starbert					
			•		Ionitor
		Enabled	- 1		-c
		Normal Boot			1
		Enabled	-	100.0 MHz 1.	1290
Boot Logo Display		Disabled	<u> </u>	34x	
Boot up NumLock State		Enabled	-	Memory	
Above 4G Decoding	G	Disabled	-	Frequency	Voltage .
Wait For 'F1' If Error		Disabled	-	Capacity	1.200 4
Option ROM Messages		Enabled	-	16384 MB	
Interrupt 19 Capture		Enabled	-	Voltage	
Setup Mode		EZ Mode	-	+12V 12.288 V	+SV 5.0001
ables or disables boot with initialization of a minimal set of de ot options.	evices required to laur	ich active boot option. Has r	no effect for BBS	+3.3V 3.264 V	

Select the following settings:

	VEFLBIOS Utility - Advanced Mode			-	
	My Favorites Main Al Tweaker Advanced Mon Note: Cultury Advanced Mon		1) 🕞 Quick Note(P9) Exit		lonitor
1.5		Enabled	~ 10	S400 MHz 38	riper dine e
	Next Boot after AC Power Loss	Normal Boot	-		an a frank a
		Enabled		100.0 MHz 1. Ratio	1290
	Boot Logo Display	Disabled		34x	
	Boot up NumLock State	Enabled	-	Memory	
	Above 4G Decoding	Disabled	-	Frequency 2133 MHz	Voltage : 1.200 V
v	Nait For 'F1' If Error	Disabled	<u> </u>		
01	ption ROM Messages	Enabled	-]	16384 MB	
Int	errupt 19 Capture	Enabled	-	Voltage	
Setu	Ip Mode	EZ Mode	-	+12V 12.288 V	+5V 5.000 V
Enable boot of	es or disables boot with initialization of a minimal set of devices required to l ptions.	aunch active boot option. H	las no effect for BBS	+3,3V 3.264 V	
			st Modified	Mode(E7)	L Search or
_			serificantea c		Searchion

- Fast Boot Enabled
- Boot Logo Display Disabled
- Boot up Numlock State Enabled
- Above 4G Encoding Disabled
- Wait for F1 If Error Disabled







Scroll down for further Boot option settings:

09/24/2018 10:00 ℃ ⊕ English ⊡ MyFavorite(F3) & Qfan Monday My Favorites Main	Control(F6)	© EZ Tuning Wizard(F11)	Quick Note(F9)	P Hot Keys	Monitor
My Pavontes Main Al Iweaker Advanced	Monitor	1001 EX		CPU	1
Option ROM Messages		Enabled	-	Frequency	Tempter or
Interrupt 19 Capture		Enabled	-	BCL R	- And
Setup Mode		EZ Mode	-	100.0 MHz	1.120 V
 CSM (Compatibility Support Module) 				Ratio	
Secure Boot					
Boot Option Priorities				Memory	
Boot Option Priorities Boot Option #1	۲¢	P1: KINGSTON SM2280S	3240G 👻	Memory Frequency 2133 MHz	Voltage 1.200 V
Boot Option Priorities Boot Option #1 3oot Option #2	Ą	P1: KINGSTON SM2280S	3240G -	Memory Frequency 2133 MHz Capacity	Voltage 1.200 V
Boot Option Priorities Boot Option #1 Goot Option #2 oot Option #3	Å	P1: KINGSTON SM22805 Disabled Disabled	3240G - -	Memory Frequency 2133 MHz Capacity 16384 MB	Voltage 1.200 V
Boot Option Priorities Boot Option #1 Boot Option #2 oot Option #3 pot Override	4J	P1: KINGSTON SM22805 Disabled Disabled	3240G - -	Memory Frequency 2133 MHz Capacity 16384 MB Voltage	Voltage 1.200 V
Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3 Bit Override KINGSTON SM228053240G (228936MB)	R	P1: KINGSTON SM2280S Disabled Disabled	3240G • • •	Memory Frequency 2133 MHz Capacity 16384 MB Voltage +12V 12.288 V	+5V
Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3 Boot Override : KINGSTON SM228053240G (228936MB)	\$	P1: KINGSTON SM2280S Disabled Disabled	33240G - - -	Memory Frequency 2133 MHz Capacity 16384 MB 	+5V 5.000

Set the following:

- Boot Option #1 must set as the main hard drive
- Boot Option #2 Disabled
- Boot Option #3 Disabled

If you **can't find a hard drive** in the Boot Options, the console is fitted with a **M2 hard drive**. Go to **Advanced** settings then use the information in the next section for a console fitted with an M2: **BIOS Advanced setting: M2 Hard Drive ONLY consoles.**

Once you have completed that section Press **F10** on the keyboard to save the BIOS. This will save the settings and restart the console.

Then re-enter the BIOS and select BOOT and you can now complete the above BOOT option settings.

Proceed on to page 9.







BIOS Advanced setting: M2 Hard Drive ONLY consoles

If there is an **M2 drive** fitted in the console - older consoles will have a SATA drive - this must be **set** in the **BIOS**.

Select Advanced from the top menu bar

Select Advanced\Onboard Devices Configuration

Monday 10:00 - Cengush Myravorite(F3) de Qiar	Control(F6) 🖓 EZ Tuning Wizard(F11) 📑 Quick N	ote(F9) PHot Keys
My Favorites Main Ai Tweaker Advanced	Monitor Boot Tool Exit	
HD Audio Controller	Disabled	Frequency Temps un
Front Panel Type	HD Audio -	BCLK Core Volta
SPDIF Out Type	SPDIF -	100.0 MHz 1.120 V
DVI Port Audio	Disabled] Ratio 34x
PCI-EX16_3 Bandwidth	Auto 🔫] Memóry
SATA Mode Configuration: [SATA Express_1][M.2]	M.2 ~	Frequency Voltage . 2133 MHz 1.200 V
smedia USB 3.1 Controller	Enabled 🗸	Capacity 16384 MB
smedia USB 3.1 Battery Charging Support	Disabled	Voltage
B Type C Power Switch	Auto -	+12V +5V

Set the following:

- HD Audio Controller Disabled
- SATA Mode Configuration M.2







BIOS Advanced setting: Screens

Important: On a CDC seven / seven-s the BIOS must be set to support Multiple Monitors. Select: Advanced\System Agent (SA) Configuration\Graphics Configuration

My Favorites Main Ai Tweaker <u>Advanced</u> Monit	or Boot Tool Exit	Hardware Morton
 Advanced\System Agent (SA) Configuration\Graphics Configuration 		CPU Creating of the second sec
		3400 MHz 38°C
TCEV VRIOS Version	1046	BCLK Core V
Primary Display		TUO O MINZ
iGPU Multi-Monitor	Enabled	34x
RC6(Render Standby)	Enabled	
WMT Pre-Allocated	64M ~	Memory
		2133 MHz 1.200 V
		Capacity
		16384 MB
		Voltage
		Voltage
		12.288 V 5.00
		+3.3V
		3.248 V

Ensure the following is enable:

- **Primary Display:** *PEG* (NOTE: for a CDC six this should be set to AUTO)
- iGPU Multi-Monitor- Enabled

For all consoles select Monitor from the top menu bar.

Scroll down to Anti Surge Support and select OFF

the state of the second se		
VEFI BIOS Utility - Advanced Mode	• •	
DB/24/2018 10:01 Control(F6)	© EZ Tuning Wizard(F11)	🕐 Hot Keys
My Favorites Main Ai Tweaker Advanced Monitor	Boot Tool Exit	Hardware Monitor
Extension Fan 1 Speed	N/A	3400 MHz 38°C
Extension Fan 2 Speed	N/A	BELK Core Voltage
Extension Fan 3 Speed	N/A	100.0 MHz 1.120 V
CPU Core Voltage	+1.120 V	34x
3.3V Voltage	+3.264 V	Memory
5V Voltage	+5.000 V	Frequency Voltage
12V Voltage	+12.288 V	2133 MHz 1.200 V
► Q-Fan Configuration		16384 MB
Anti Surge Support	On Off	Voltage
Chassis Intrude Detect Support	On Off	+12V +5V 12.288 V 5.000 V
If enabled, system will have uvp or ovp protect function.		G +3.3∨ 3.264 ∨
	Last Modified Ezt	Mode(F7)

Press F10 on the keyboard to save the BIOS. This will save the settings and restart the console.







Setting the Clock

Once the console has rebooted you will need to re-set the clock.

This is done by going into the **MENU** and select **SETTINGS** then **ABOUT**.



Once in **ABOUT** click on the time and re-set the clock to the current date and time.

Set Time and	Date			
09	Aug	2016	14:	27
10	Sep	2017	15:	28
11	Oct	2018	16:	29
12	Nov	2019	17:	30
13	Dec	2020	18:	31
14		2021	19:	32
.5		2022	20:	33
Store	6			Up
Update	Prev		Next	Down

To exit press the **BACK** button.

BIOS battery change in now complete.



