

Firstly you need a compatible DVD Writer the range is listed below:

LiteOn iHas124-XX B LiteOn iHas224-XX B LiteOn iHas324-XX B LiteOn iHas424-XX B LiteOn iHas524-XX B LiteOn iHas624-XX B

(The XX varies – the important part is the firmware version B: denotes chipset)

#### THIS TUTORIAL SHOWS THE PROCESS FOR 324! ENSURE YOU USE CORRECT UPGRADE.EXE AND CORRECT FW FOR YOUR DRIVE! (at time of writing the AL1A firmware was used – release will be AL1B)

Then of course you need the custom iXtreme Burner Max firmware for your relevant model.

You will also require the drive upgrade.exe, again ensure correct one for your drive!

Plus 2 other utility programs from

# codeguys.rpc1.org

#### EEPROM Utility (v6.2.0) Flash Utility (v6.0.1)

Name	Date modified	Туре	Size
AL1A.EXE	14/10/2011 18:07	Application	1,222 KB
EEPROM_Utility.exe	18/02/2011 13:14	Application	344 KB
Flash_Utility.exe	17/02/2011 16:47	Application	370 KB
iHAS-324B-AL1A-MKM001MKM003-final.bin	16/10/2011 11:02	Virtual CloneDrive	2,048 KB

Firstly – connect your drive (normal onboard SATA should be more than adequate) and you can also use X360USB Pro if you wish. (I'm not going explain connecting a SATA cable)

Ensure your drive shows in device manager and is listed in windows.



### **Upgrade Your Drive**

Now run the upgrade.exe relevant to your drive.

Name	Date modified	Туре	Size		
AL1A.EXE	14/10/2011 18:07	Application	1,222 KB		
EEPROM_Utinty_exe	18/02/2011 13:14	Application	344 KB		
Flash_Utility.exe	17/02/2011 16:47	Application	370 KB		
iHAS-324B-AL1A-MKM001MKM003-final.bin	16/10/2011 11:02	Virtual CloneDrive	2,048 KB		
Ensure the correct one for your drive!					

(Ensure it is for YOUR iHas drive before you continue)

Warning	
1	This flash utility only supports ATAPI iHAS324 B drive. NOTICE : 1> Please REMOVE disc and close all applications before running this utility ! 2> Don't turn off the system while flash is in progress. Do you wish to continue ?
	Yes No

Click Yes Button

Once complete it will ask you to reboot the PC (do so before you continue!)

#### BackUp your Current Firmware and EEPROM

For safety – you should backup your current drive firmware and EEPROM.

Now open the EEPROM Utility	y – Ensure the co	rrect Drive (iHas)	
Name	Date modified	Туре	Size
AL1A.EXE	14/10/2011 18:07	Application	1,222 KB
/ EEPROM_Utility.exe	18/02/2011 13:14	Application	344 KB
Flash_Utility.exe	17/02/2011 16:47	Application	370 KB
iHAS-324B-AL1A-MKM001MKM003-final.bm	16/10/2011 11:02	Virtual CloneDrive	2,048 KB

D:ATAPI iHAS324 B AL1A 2011/05/09 09:16 Eeprom CrossFlash Checksum Slim 20x RPM Options Bitsetting Region About
Eeprom CrossFlash Checksum Slim 20x RPM Options Bitsetting Region About
Backup Eeprom Restore Eeprom Clear Media Learn
Make sure you select the correct drive
codeguys.rpc1.org

press the **Backup Eeprom** button.

Save EEPROM	File				X
Save in:	📔 New folder	•	•	← 🗈 📸 🕶	
Ca	Name	~		Date modified	Туре
Recent Places		No items match yo	ur s	earch.	
Desktop					
Librarias					
Computer				×	
Network					
	•	III			•
	File name:	ATAPI_iHAS324_B_AL1A.bin		•	Save
	Save as type:	Binary files (*.bin)		•	Cancel

Click Save. Once finished click Exit

A EEPROM Utility for PLDS Based Optical Drives v6.2.0
D:ATAPI iHAS324 B AL1A 2011/05/09 09:16 🗸
Eeprom     CrossFlash     Checksum     Slim     20x RPM     Options     Bitsetting     Region     About     I
Radius Forrom Bestere Forrom Class Media Lasm
Backup of EEPROM saved.
codeguys.rpc1.org

## Open the Flash Utility

AL1A.EXE	14/10/2011 18:07	Application	1,222 KB
EEPROM_Utility.exe	18/02/2011 13:14	Application	344 KB
EEPROM_Utility.ini	17/10/2011 19:49	Configuration sett	1 KB
Plash_Utility.exe	17/02/2011 16:47	Application	370 KB
iHAS-324B-AL1A-MKM001MKM003-final.bin	16/10/2011 11:02	Virtual CloneDrive	2,048 KB

#### Ensure Correct Drive (iHas) is showing



Click the Read Flash Button (should already have automatically selected the 2MB Option)

🧼 Save FLASH to	File		x
Save in:	New folder	← 🗈 📸 🕶	
C.	Name	Date modified	Туре
Recent Places	ATAPI_iHAS324_B_AL1A.bin	17/10/2011 19:48	Virtual Clc
Desktop			
Libraries			
		× 1	
Computer		$\mathbf{i}$	
Network			
	▲ []	×	Þ
	File name: AL1A.bin	-	Save
	Save as type: Binary files (*.bin)	•	Cancel

Click Save

# Writing the Max iXtreme Firmware!

Plash Utility for LiteOn Based Optical	I Drives v6.0.1
D:ATAPI iHAS324 B	AL1A 2011/05/09 09:16 🔹
Flash About	
Flash read size: 2MB 💌	Flash ID: EF 14 00 2F B Flash size: 2MB Flash type: NEX(NX25P16) - (1-0)
Read Flash Write Flas	sh 🔽 Update boot code
FLASH image file saved.	
codeguys.rpc1.org	Exit

With the Flash Utility still open (ensure iHas selected)

Click Write Flash Button

Flash Utility	y for LiteOn Based Optical Drives
	WARNING: HAVE YOU SELECTED THE CORRECT DRIVE? D:ATAPI iHAS324 B AL1A 2011/05/09 09:16 NOTE: This is VERY EXPERIMENTAL! Proceed with extreme caution! Do not proceed if you do not have the experience to recover your drive at DOS with MTKFlash or XSF! No model checking is performed! Make sure you are writing firmware to the selected drive that is compatible with its hardware! Do you want to proceed?
	Yes No

Click Yes Button!

Write FLASH	from File			×
Look in:	AL1A-MKM	001MKM003	← 🗈 💣 📰▼	
œ.	Name	*	Date modified	Туре
De sent Diress	AL1A.EXE		14/10/2011 18:07	Applicat
Recent Places	EEPROM_	Utility.exe	18/02/2011 13:14	Applicat
	🔷 🖗 Flash_Utili	ty.exe	17/02/2011 16:47	Applicat
Desktop	🕑 iHAS-324E	3-AL1A-MKM001MKM003-final.bin	16/10/2011 11:02	Virtual C
Libraries Libraries Computer				
Network	•	III		L ,
Network	File name:	iHAS-324B-AL1A-MKM001MKM003	final.bin 💌	Open
	Files of type:	Binary/Flasher files (*.bin;*.exe)	•	Cancel
		Open as read-only		

Navigate and select the correct Firmware for your drive model. (Very important)

Click Open Button



If you are 100% sure you have chosen correct file

Click Yes Button

# Wait for the flash to finish

Flash Utility for LiteOn Based Optic	al Drives v6.0.1			
D:ATAPI iHAS324 B	AL1A 2011/05/09 09:16 🗸			
Flash About				
Flash read size:	Flash ID: EF 14 00 2F B Flash size: 2MB Flash type: NEX(NX25P16) - (1-0)			
Read Flash Write F	iash 🔲 Update boot code			
Writing FLASH Please wait even if the progress bar has reached the end				
codeguys.rpc1.org	Exit			

Flash Utility for LiteOn Based Optical Drives v6.0.1				
D:ATAPI iHAS	324 B	AL1A 2011/05/09 09:16	•	
Flash About				
Flash read size:	F	Flash ID: EF 14 00 2F B Flash size: 2MB lash type: NEX(NX25P16) - (1-0)		
Read Flash	Write Flash	Update boot cod	e	
FLASH write complete.				
codeguys.rpc1.	org	E	xit	

Click Exit!

YOU ARE DONE!

### THANKS:

c4eva – for your genius! Dedication and hard work

Team Jungle – awesome

Team Xecuter – for your unfaltering support

codeguys.rpc1.org – for your LiteOn Utilities

Defosho – OPC for 4x burning on MKM003

Testers – for your time and the seriously stupid amount of wasted discs!

# **Imgburn Notes:**

# Remember the Max iXtreme Burner will only successfully write at a Maximum speed of 4x on MKM003 (with OPC) and 2.4x on MKM001 (without OPC) DVD+R DL

(Imgburn is the suggested burning software for writing)

Ensure you select **perform OPC before write** in the **settings** page as shown below if you intend to use 4x.



Settings							×
Events	Registry			File Locations			
General Read Build	Write	Verify	Graph Dat	ta	I/O	Device	Sounds
Page 1   Page 2     Options   Write Mode:     Write Type:   Link Size:     Image: Auto 'Change Book Type' (*)   Use 'Normal' For BD Video D     Image: Use 'Normal' For BD Video D   Image: Perform OPC Before Write     Image: DVD+R Reserve Track   DVD+R Reserve Track     Image: DVD+R DL Only Write To First I   DVD+R DL Only Write To First I     Image: DVD-RAM / BD-RE FastWrite (*)   Image: Pile BURN-Proof     Image: DVD-RAM / BD-RE FastWrite (*)   Image: Pile System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occk Volume - Exclusive Access   Image Ignore Mounted File System     Image: Occheck 'Delete Image'   Image Ignore Mounted File Syst	Auto DAO/SAO Auto Discs (*) Radius) (*) .ayer (*) ) s Drivers		ntions yer Break (Fc Calculate User Spe Sectors in Auto 'Expor for 4x for 2 CD-TEXT - U Remember r safety E	or DL N e Optin cified L0: t Grap Ensu Use Ar 'Copie Ensur bui	Media) mal h Data' ure ticked Jnticked nsi CodePag es' re you ver m!	2086912 d je	
Restore Defaults						OK	Cancel

#### Before Writing Ensure you have Verify ticked!

🥪 ImgBurn	
File View Mode Tools Help	
Source 🖾 C:\\gow3ap25\forza4-d2.dvd 🔯 🗞	ATAPI iHAS324 B AL1A (ATA) Current Profile: N/A
Label: DVD_ROM Imp ID: Microsoft CDIMAGE UDF File Sys: ISO9660, UDF (1.50)	
Sectors: 4,267,015 (MODE1/2048) (LB: 2,133,520) Size: 8,738,846,720 bytes Time: 948:15:40 (MM:SS:FF)	
Destination	
🔮 [0:0:0] ATAPI iHAS324 B (D:) 🔻	
🚱 🗌 Test Mode 🔽 Verify 👘 🤯	Ensure You tick Verify before you start writing - to check your burn
	Settings   Write Speed: 2.4x   Copies: 1
Device Not Ready (Medium Not Present - Tray Closed)	

Your burn maybe successful but you need to verify it to ensure it is 100%