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Works for me: ML110 G5, MS Windows Server 2008 Standard x64, and Embedded SATA RAID drivers

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Author

[Richard P King](#)

Subject: Works for me: ML110 G5, MS Windows Server 2008 Standard x64, and Embedded SATA RAID drivers

Jan 29, 2009 18:10:34 GMT

I've just spent two days beating our company's new ML110 G5 with a stiff force it to accept an installation of Microsoft Windows Server 2008 Standard. I finally got it working I thought I'd share what I did in case anyone else has the same issues I came across.

This is a long-winded post but hopefully the gory details will make a difference somewhere.

This is a "works for me" post. Your mileage may vary. Discussion is welcome. My server is now commissioned and in use, so I am unable to carry out any

My hardware:

HP ML110 G5 server
3 GB RAM
2 x 250 GB SATA HDDs (which I want to run as a RAID-1 mirror)

These instructions assume you are performing an installation from scratch. If you have disks hold no data that you wish to keep. **FOLLOWING THESE INSTRUCTIONS WILL ERASE THE HARD DISKS!** Back up any data you want to keep before starting.

1. Boot the machine and hit F10 to enter the BIOS configuration utility.
2. Press F9 and confirm the dialog to reset the BIOS to its factory default.
3. Under the "Main" menu, under "Boot Features", change "Virtual Installation" to "Disabled".
4. Under the "Advanced" menu, select "Advanced Chipset Control" and change "SATA RAID Controller" to "Enabled".

THIS NEXT STEP IS CRITICAL. The Windows 2008 Server installer will not install a RAID array unless you do this.

5. Under the "Boot" menu, highlight "+ Hard Drive" and press <+> twice to move it to the top of the list.

6. Save and exit from the BIOS. The machine will reboot.
7. Press F8 when prompted to enter the RAID controller configuration utility.
8. Configure your RAID array according to taste.

IMPORTANT: If a RAID array is already configured **DELETE IT** and reconfigure it. If the existing configuration is the same as the one you want. The act of deleting the array clears the disk partition tables. If this isn't done, the currently installed operating system will not boot.

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will boot instead of the install CD. This is an artifact of the requirement for the "removable device" entry to be set first in the BIOS boot order, and is also the reason why it's not possible to perform an installation using these instructions without erasing the disks.

9. Go back into the BIOS and check the boot order again. I have found that the "removable device" entry gets moved to the top of the list after the RAID controller has been configured. If this has happened, move "Hard Disk" back to the top of the list and exit.

10. Insert the installation media (I used the Windows Server 2008 Standard Edition DVD and the Microsoft Action Pack).

11. Follow the installation wizard steps up to the point at which you have to install Windows.

There are *two* drivers that you have to install:

* cp008698 - Install this first (this seems to be the 64bit driver that windows boots from disk).

Get it from <ftp://ftp3.hp.com/ftp1/pub/softlib2/software1/sc-windows/p143>

* cp008697 - Install this second (this seems to be the driver that the installer can see the disks in order to install windows onto them).

Get it from <http://h20000.www2.hp.com/bizsupport/TechSupport/SoftwareIndex.page.jsp?cc=us&prodTypeId=15351&prodSeriesId=3580609&prodNameId=35806461&swLang=8&mode=2&taskId=135&swItem=MTX-295381a9a94e4182af>

12. Insert a USB stick with these drivers on it, and click "load driver".

13. Click "Browse" and navigate to the "CP008698" folder on the USB stick.

14. Select "Adaptec Serial ATA HostRAID (c:\path\to\cp008698\aarachi.inf)" - be the only entry if you have checked "Hide drivers that are not compatible on this computer".

15. Click next, and "OK" on the subsequent "load driver" dialog.

When you return to the "Where do you want to install windows" screen, it should be as it did the first time (the disks will not appear in the list). However, the RAID controller has been loaded into memory and will get copied to the system directory when you click "Next".

16. Now repeat the above steps, substituting cp008697 for cp008698. This is the 32bit driver.

17. Back at the "where do you want to install windows" screen, you should see a new disk entry: "Disk 1 Unallocated Space". Select this entry and click "Next".

All being well, Windows should now install. The installer will use the 32bit driver to install Windows, but will also copy the 64bit drivers to the system drive.

The machine will reboot automatically when installation is complete. Remove the USB stick when this happens. If you don't remove the USB stick in time you may need to press CTRL-ALT-DEL to reset the machine after it reboots.

With any luck, when the operating system loads from disk, it will use the 64bit driver and you will be presented with the first-run configuration wizard. w00t!

Theories on a postcard, please, as to why both the 32- and 64-bit drivers are needed. Also, sharp-eyed readers will note that the drivers I've linked to here are Windows Server 2003 versions, not the Server 2008 ones. I did try the latter using the 2008 versions but they didn't work (GPF on reboot). I guess only HP can tell us why that may be.

I hope this information helps save someone some time and effort :o)

Note: If you are the author of this question and wish to assign points to any of the answers, click [here](#).

Sort Answers E

[Aldo Bergatta](#)

Feb 5, 2009 22:51:31 GMT Unassigned

Hi Richard ! Great post !!!!

I wonder that are hp customers that write the "how to..." guides. :-)

Anyway... do you know if your installation procedure could work on a ML

Thanks

[Richard P King](#)

Feb 6, 2009 10:03:22 GMT N/A: Question Author

No idea I'm afraid - I don't have one. You're welcome to try it out and post though :o)

[Aldo Bergatta](#)

Feb 14, 2009 18:35:07 GMT Unassigned

On my new Proliant ML150 G5 , i need only to insert the SBS2008x64 bit 64bit drivers for the embedded sata raid (cp009516) and all work fine.

Maybe there is a better bios or firmware on board.

[matt stevens](#)

Feb 27, 2009 18:19:01 GMT 10 pts

You are a Godsend!!!

Been scratching my head over this for the past 3 months.

Thank You !

btw The link to the second driver is no longer valid but can be found here

<http://h20000.www2.hp.com/bizsupport/TechSupport/SoftwareDescriptionPage.jsp?lang=en&cc=us&prodTypeId=15351&prodSeriesId=3580609&prodNameId=3580646&swLang=8&mode=2&taskId=135&swItem=MTX-295381a9a94e4182a6>

[Jeroen Sen](#)

Apr 3, 2009 05:30:58 GMT Unassigned

Thank you Richard!!

This is the solution which I was looking for for months. I had the same problem (the 32-bit driver being 'not signed') but loading the 2 drivers after each other has let me correctly install RAID controller and Windows Server 2008.

Ok, the procedure I took was somewhat different than the procedure Richard described. I didn't alter any settings in the BIOS (which I previously had done, so I did it at default settings) I just first loaded the 64-bit driver when being asked by the installation procedure of Windows Server 2008 (because Richard assumed that the 32-bit driver would stay in available in memory). After loading these drivers I got an error (the error described in Richard's post) after which I got another error. But after closing the error message I simply had all my partitions visible and available for installing Windows Server 2008. So Richard thanks a million!

[Anthony O'Brien](#)

Jun 13, 2009 11:27:01 GMT 10 pts

Excellent post.

I too had battled with this for 2 days so finding this was manna from heaven

There are updated drivers available for Server 2008 so it is not necessary to install cp009516 which is replaced with:

11 Follow the installation wizard steps up to the point at which you have to install Windows.

There is a single driver for the embedded SATA RAID card that you have to download cp009517 (32bit) or cp009516 (64bit)

Download the appropriate one -

cp009517 from:

<http://h20000.www2.hp.com/bizsupport/TechSupport/SoftwareDescription.page?lang=en&cc=us&prodTypeId=15351&prodSeriesId=3577708&prodNameId=35777151&swLang=8&mode=2&taskId=135&swItem=MTX-dfb7fd312fb14d70b951>

or

cp009516 from:

<http://h20000.www2.hp.com/bizsupport/TechSupport/SoftwareDescription.page?lang=en&cc=us&prodTypeId=15351&prodSeriesId=3577708&prodNameId=35777151&swLang=8&mode=2&taskId=135&swItem=MTX-89b748fe8b0b4011b8>

Once downloaded, the exe file needs to be run and extracted preferably on a USB stick. You do not have to purchase this from HP - any USB stick will do.

12. Insert the USB stick with this driver on it, and click "load driver".

13. Click "Browse" and navigate to the folder on the USB stick where you saved the driver to.

14. For 32bit, select "Adaptec Serial ATA HostRAID (c:\path\to\cp009517\)" this should be the only entry if you have checked "Hide drivers that are not supported with hardware on this computer".

For 64bit, select "Adaptec Serial ATA HostRAID (c:\path\to\cp009516\)" this should be the only entry if you have checked "Hide drivers that are not supported with hardware on this computer".

15. Click next, and "OK" on the subsequent "load driver" dialog.

When you return to the "Where do you want to install windows" screen, it should be as it did the first time (the disks will not appear in the list). However the c: drive has been loaded into memory and will get copied to the system directory when you click next.

Continue with 17...

That's it.

As this is marketed as an entry level server, lots of newbies (like me) may not know how to set up a server machine so this detailed guide is very useful.

[Johnsie](#)

Aug 12, 2009 14:08:29 GMT Unassigned

Hi,

Will this work for sbs 2008?
Cheers

[###CTS](#) Aug 17, 2009 16:52:04 GMT 10 pts

I can confirm that this fix does work for Windows 2008 Small Business S

Thanks for the help everyone... much appreciated.

[gabriel vine](#) Oct 25, 2009 06:13:02 GMT Unassigned

I wanted to thank you all. It took me a day and a half of frustration trying HP. I could only install SBS 2008 on IDE and not raid. Could not figure c 2000 am an I found your post and the others that updated it and solved i

[stevejones13](#) Oct 31, 2009 10:25:43 GMT Unassigned

Also a vote of thanks from me. I spent two days on this. HP site is misle: and sp008697 did not show up in my Windows Server 2008 FOUNDATI However SP009516 did and worked! Special thanks to Anthony O'Brien the right direction.
regards Steve

[Dirk Dekker](#) Nov 30, 2009 21:53:24 GMT Unassigned

Hi, I did install Win2008 server on the HP M110 G5 using the same routi by Richard P.King. Win2008 is running fine fot he moment. Now I want t HDisk, same type and size as disk#0 for a RAID-1 (mirror) volume. HP-support suggest to reinstall the OS after finishing the virtual Volume mine idea. I like to have the OS intact and put the second disk to the run because what to do when a emergency will happen and a disk has to be better one?
But when the Volume is made (takes a copy time of 3 hours!)then the O: because there is no HD anywhere!

Maybe Somebody knows the trick?

[perolof Näfverborn](#) Jan 3, 2010 09:35:44 GMT Unassigned

Hurray!

This did the trick. had a very difficult time to get windows SBS2008 to ins volume.
I used driver cp009516 for the RAID.

Thanks again
PO

[Aide Oijqbede](#) Jul 7, 2010 14:42:44 GMT Unassigned

This worked for me as well. A welcome find after a whole day of frustrati HP would have made this easier by now! It's been more than a year and

I didn't have to load both 32 and 64bit drivers (just 64) and strangely, the driver didn't work. I had to use the 64bit driver from the original post.

My stuff:

SBS 2008
ML110 G5 Server

4GB RAM
2x 250GB HDD (RAID 1)

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