

Erledigt

macOS sierra in Thinkpad E560 help needed

Beitrag von „Web Developer“ vom 30. August 2017, 21:57

Hi,

I install macOS successfully with the config.plist in the attachments,
but when I use CLOVER-Folder from [post 207](#) post installation to start osx it take long time and
when I use -v flag it shows me this message "AppleLPC: RCBA not enabled"

[@iPhoneTruth](#) maybe your DSDT will not work for me because I have 6200U cpu?

in the attachment you will find my origin DSDT and the EFI folder I'm using

Beitrag von „derHackfan“ vom 30. August 2017, 22:36

Teste mal bitte die DSDT aus dem Anhang.

Beitrag von „Web Developer“ vom 30. August 2017, 23:28

[Zitat von derHackfan](#)

Teste mal bitte die DSDT aus dem Anhang.

[@derHackfan](#)

Thank you very much! now the macOS is booted but a lot of things not working
like:

- Battery indicator not appear and not working
- sound is working but it low and not loud!
- I can't change Brightness (there is no control for it in "Settings")

- bluetooth not work (maybe because I have an intel wireless card?)
- left and right click buttons of the touchpad is not working

I put all kext in the CLOVER/kexts/Other folder is this correct? or should I put it in /System/Library/Extensions ?

[@iPhoneTruth](#) Can you give me the kexts that you use to make these things work also, did you find the secret keyboard shortcut that comes with the Advanced [BIOS settings](#)?

Another question, can you recommend a wireless card that compatible with my laptop and work great with macOS sierra?

I really I appreciate your help guys

Beitrag von „derHackfan“ vom 31. August 2017, 06:47

Den Rest kann man auch noch patchen. 😊
Vielleicht heute Abend nach der Arbeit ...

Beitrag von „iPhoneTruth“ vom 31. August 2017, 09:38

Hallo [@derHackfan](#)

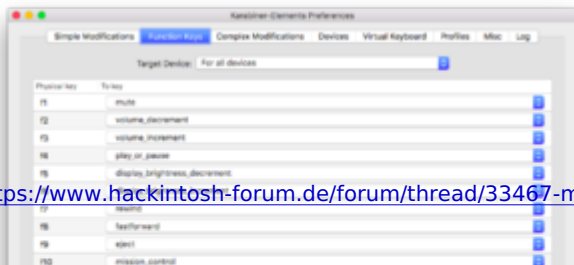
Schön, daß Du dich der DSDT animmst. Schicke Dir hier die Liste der Patches, die ich bei mir, auch nach Anleitung von [@al6042](#) angewandt habe.

Spoiler anzeigen

[@Web Developer](#)

First you need a patched DSDT. With this batteryindicator and sound will work.

Brightness need also a patched DSDT and [Karabiner](#) Elements to change the function-keys.



Bluetooth will work with a compatible WIFI/BT-Card, f.e. Broadcom BCM94352HBM or with a compatible BT-USB-Stick.

And Yes, left and right click buttons of the touchpad wont work.

Beitrag von „Web Developer“ vom 31. August 2017, 09:55

Hello [@iPhoneTruth](#)

Can you please answer the following question:

[Zitat von Web Developer](#)

did you find the secret keyboard shortcut that comes with the Advanced [BIOS settings](#)?

And I'm a noob so I don't know how to patch DSDT so any help would be greatly appreciated ☺

Beitrag von „iPhoneTruth“ vom 31. August 2017, 10:08

No, I dont find the secret keyboard shortcut for Advanced [BIOS settings](#). If you will find it, pleas tell me.

Yes, there are two Wireless/Bluetooth-Combo cards, witch works great with our laptop and macOS Sierra: Broadcom BCM94352HBM and Broadcom BCM943602BAED (= DW1830). Both had the NGFF-Faktor witch is necessary. No other card will work with macOS.
But one issue is there: After Sleep Wifi wont work on my laptop.

Beitrag von „Web Developer“ vom 31. August 2017, 10:33

Great information, I don't know how to thank you for your time and efforts!

I'm a noob so I don't know how to patch DSDT so any help would be greatly appreciated ☺

Beitrag von „iPhoneTruth“ vom 31. August 2017, 19:21

Try this DSDT !

Beitrag von „Web Developer“ vom 31. August 2017, 20:43

[Zitat von iPhoneTruth](#)

Try this DSDT !

I just tried this DSDT and I find the result is:

- Battery indicator now is appearing but when I **unplug** the charger, it show that the power source is **Charger!** and it show as 100% always and not decreasing!
- sound is working but it not loud as a previous hackintosh that I use.
- Brightness is now **working!**
- bluetooth not work (maybe because I have an intel wireless card?)

[iPhoneTruth](#) Thank you again for your efforts

Beitrag von „iPhoneTruth“ vom 31. August 2017, 21:47

For sound perhaps the prepane for VoodooHDA will help. Install and test it!

Yes, Bluetooth will not work on macOS Sierra with the original intel wireless card.

Beitrag von „derHackfan“ vom 31. August 2017, 21:49

Hatten wie schon die Option eine andere Layout ID zu testen maybe 27?

Beitrag von „Web Developer“ vom 31. August 2017, 22:00

[Zitat von iPhoneTruth](#)

For sound perhaps the prefpane for VoodooHDA will help. Install and test it!

Yes, Bluetooth will not work on macOS Sierra with the original intel wireless card.

prefpane for VoodooHDA Did not help 😞

[@iPhoneTruth](#) [@derHackfan](#) Can you help me please to fix this problem: Battery indicator now is appearing but when I unplug the charger, it show that the power source is Charger! and it show as 100% always and not decreasing!

Beitrag von „iPhoneTruth“ vom 31. August 2017, 22:03

Das wäre sicher mal interessant und ein Versuch wert!

Gesendet von iPhone mit Tapatalk Pro

Beitrag von „derHackfan“ vom 1. September 2017, 13:30

Ich könnte frühestens heute Abend noch mal wegen Audio und Battery schauen.

Beitrag von „iPhoneTruth“ vom 1. September 2017, 14:36

Ich bin da sowieso nicht so firm. Also dann ... bis heute Abend!



Beitrag von „Web Developer“ vom 1. September 2017, 16:30

[@derHackfan](#) Thank you very much, I really appreciate your help

I really hope to solve the battery problem, I will be very grateful if you could help me with this issue


Beitrag von „Web Developer“ vom 3. September 2017, 12:40

[Zitat von Web Developer](#)

[@derHackfan](#) Thank you very much, I really appreciate your help

I really hope to solve the battery problem, I will be very grateful if you could help me with this issue

[@iPhoneTruth](#) [@derHackfan](#)

Is there any hope to solve this problem 

Can you please tell me where I can search for a solutions that may solve the problem

Beitrag von „iPhoneTruth“ vom 4. September 2017, 09:38

Pleas send your CLOVER-Folder!

First try this DSDT!

If this will have no effect, try this kext:

[Voodoo Batterie](#)

Beitrag von „Web Developer“ vom 4. September 2017, 11:56

[Zitat von iPhoneTruth](#)

Pleas send your CLOVER-Folder!

First try this DSDT!

If this will have no effect, try this kext:

[Voodoo Batterie](#)

[@iPhoneTruth](#) Here is my CLOVER folder in the attachments, I tried your DSDT and the problem not solved 😞

I will try the Voodoo Batterie and report back soon

Beitrag von „iPhoneTruth“ vom 4. September 2017, 14:02

Try this Clover-Folder.

(I think, SSDT.aml is the cause of your problem. Now I deleted it from Clover. You have to create your own SSDT later.)

Beitrag von „Web Developer“ vom 4. September 2017, 16:10

[Zitat von iPhoneTruth](#)

Try this Clover-Folder.

(I think, SSDT.aml is the cause of your problem. Now I deleted it from Clover. You have to create your own SSDT later.)

I will try your CLOVER folder and report back to you

UPDATE:

[@iPhoneTruth](#)

When I tried to use ssdtPRGen to generate SSDT it failed with the following error:

Code

1. sudo ~/ssdtPRGen.sh
- 2.
- 3.
4. sudo: ignoring time stamp from the future
- 5.
- 6.
7. Password:
- 8.
- 9.
10. ssdtPRGen.sh v0.9 Copyright (c) 2011-2012 by † RevoGirl
- 11.
- 12.
13. v6.6 Copyright (c) 2013 by † Jeroen
- 14.

15.
16. v15.6 Copyright (c) 2013-2017 by Pike R. Alpha
17.
18.
19. -----
20.
21.
22. Bugs > <https://github.com/Piker-Alpha/ssdtPRGen.sh/issues> <
23.
24.
25. gDataPath: /Users/lpc/Library/ssdtPRGen/Data
26.
27.
28. System information: Mac OS X 10.12.6 (16G29)
29.
30.
31. Brandstring 'Intel(R) Core(TM) i5-6200U CPU @ 2.30GHz'
32.
33.
34. Error: Unknown processor model ...
35.
36.
37. Visit <http://ark.intel.com> to gather the required data:
38.
39.
40. Processor Number
41.
42.
43. TDP
44.
45.
46. Low Frequency Mode (use AppleIntelInfo.kext)
47.
48.
49. Base Frequency
50.
51.
52. Max Turbo Frequency
53.
54.
55. Cores
56.
57.
58. Threads
59.
60.

- 61. Aborting ...
- 62.
- 63.
- 64. Done.

Alles anzeigen

I think the problem because I have 6200U cpu and you have 6500U CPU, maybe the DSDT need some changes? what you think

Beitrag von „iPhoneTruth“ vom 4. September 2017, 17:52

Wait with generating your SSDT. Laptop will run also without SSDT.

How is it now with the batteryindicator?

Beitrag von „Web Developer“ vom 4. September 2017, 18:49

[Zitat von iPhoneTruth](#)

Wait with generating your SSDT. Laptop will run also without SSDT.

How is it now with the batteryindicator?

Without SSDT it shows that: No Battery Available

UPDATE:

[@iPhoneTruth](#) I generate the SSDT successfully and this is the result:

Code

```
1. ssdtPRGen.sh v0.9 Copyright (c) 2011-2012 by † RevoGirl
2. v6.6 Copyright (c) 2013 by † Jeroen
3. v21.5 Copyright (c) 2013-2017 by Pike R. Alpha
4. -----
5. Bugs > https://github.com/Piker-Alpha/ssdtPRGen.sh/issues <
6.
7.
8. System information: Mac OS X 10.12.6 (16G29)
9. Brandstring: "Intel(R) Core(TM) i5-6200U CPU @ 2.30GHz"
10.
11.
12. Version: models.cfg v171 / Skylake.cfg v195
13.
14.
15.
16.
17. Scope (_PR_) {222 bytes} with ACPI Processor declarations found in DSDT (ACPI 1.0
    compliant)
18. Generating ssdt.dsl for a 'MacBookPro13,1' with board-id [Mac-473D31EABEB93F9B]
19. Skylake Core i5-6200U processor [0x406E3] setup [0x0605]
20. With a maximum TDP of 15 Watt, as specified by Intel
21. Number logical CPU's: 4 (Core Frequency: 2300 MHz)
22. Number of Turbo States: 5 (2400-2800 MHz)
23. Number of P-States: 24 (500-2800 MHz)
24. Adjusting C-States for detected (mobile) processor
25. Injected C-States for CPU0 (C1,C3,C6,C7)
26. Injected C-States for CPU1 (C1,C2,C3,C6,C7)
27. Warning:      Model      identifier      (MacBookPro13,1)      not      found      in...:
    /S*/L*/CoreServices/PlatformSupport.plist
28.
29.
30. Warning: 'cpu-type' may be set improperly (0x0605 instead of 0x0905)
31. - Clover users should read https://clover-wiki.zetam.org/Configuration/CPU#cpu_type
32. Compiling: ssdt_pr.dsl
33. Intel ACPI Component Architecture
34. ASL Optimizing Compiler version 20140926-64 [Nov 6 2014]
35. Copyright (c) 2000 - 2014 Intel Corporation
36.
37.
38. ASL Input: /Users/.../Library/ssdtPRGen/ssdt.dsl - 301 lines, 9304 bytes, 49 keywords
```

- 39. AML Output: /Users/.../Library/ssdtPRGen/ssdt.aml - 1789 bytes, 16 named objects, 33 executable opcodes
- 40.
- 41.
- 42. Compilation complete. 0 Errors, 0 Warnings, 0 Remarks, 0 Optimizations

Alles anzeigen

but when I use this SSDT.aml the same problem not solved and it show the message: No Battery Available

Beitrag von „al6042“ vom 5. September 2017, 11:23

Which one is the latest DSDT you currently use?

I might also add, that I had an Ideapad 500-15ISK, which didn't need a DSDT-Battery-Patch, just the ACPIBatteryManager.kext in /EFI/CLOVER/kexts/Other directory.

Did you try that on your machine?

Beitrag von „Web Developer“ vom 5. September 2017, 13:26

[Zitat von al6042](#)

Which one is the latest DSDT you currently use?

I might also add, that I had an Ideapad 500-15ISK, which didn't need a DSDT-Battery-Patch, just the ACPIBatteryManager.kext in /EFI/CLOVER/kexts/Other directory.

Did you try that on your machine?

[@al6042](#)

I use this DSDT from this post

[macOS sierra in Thinkpad E560 help needed](#)

I didn't try without DSDT-Battery-Patch, I don't know how to patch or unpatch DSDT
can you help me please

Beitrag von „al6042“ vom 5. September 2017, 13:34

Before I can do that, you should add your hardware details either in your signature or your profile, within the section "About me".

I also would like to take a look at your IOREG-Data...

Please download the [IORegistryExplorer](#), open it and save the results with "File"->"Save as" as an IOREG-file...

Compress it and post it as an attachment.

Beitrag von „Web Developer“ vom 5. September 2017, 13:53

[Zitat von al6042](#)

Before I can do that, you should add your hardware details either in your signature or your profile, within the section "About me".

I also would like to take a look at your IOREG-Data...

Please download the [IORegistryExplorer](#), open it and save the results with "File"->"Save as" as an IOREG-file...

Compress it and post it as an attachment.

[@al6042](#)

I did all of that 😊
the IOREG-file in the attachments

Beitrag von „al6042“ vom 5. September 2017, 14:48

Please do not always quote the post directly above yours... everybody in here can read, but all that "quoting" messes up the readability of the thread on mobile devices...

Thanks

EDIT:

Do you use a Broadcom Wifi/BT Combo-Card in your Thinkpad E560?

Beitrag von „Web Developer“ vom 5. September 2017, 14:53

No, I use Intel(R) Dual Band Wireless-AC 3165 but it is not working as you know, I'm planning to replace it soon

Beitrag von „al6042“ vom 5. September 2017, 15:00

Please try the attached config.plist and DSDT.aml, but make sure you just rename your current ones, instead of deleting them.

Beitrag von „Web Developer“ vom 5. September 2017, 15:11

You are awesome! It works!!!!!!!!!!!!
I need to test it more but it appears it works fine, Thank you very much

What you did to make it work?
and I want to ask you, should I use the SSDT that I generate in post 24 (Is I generate it right?)

or should I use the SSDT from [@iPhoneTruth](#) files?

EDIT:

It appears that the battery percentage is shown right, but the Battery icon turn to RED color at 94% 😞
maybe there is a small problem need to be fixed

Beitrag von „al6042“ vom 5. September 2017, 15:19

Thanks for the Info... 😊

Since the battery seems to work, I'd say try both SSDTs one after another and see what's happening when you check the speedsteps with the [Intel Power Gadget](#).

In regards to the DSDT, the Battery Patch was already set, but it seemed to have missed the "AC Adapter Fix" from the "Laptop"-Repository.

I added that, with a couple of other known Injections for Audio, Graphics, HDMI-Audio and some other stuff... 😊

Beitrag von „Web Developer“ vom 5. September 2017, 15:24

I don't know how to thank you, many many thanks

did you read my edit?

EDIT:

It appears that the battery percentage is shown right, but the Battery icon turn to RED color at

94%

maybe there is a small problem need to be fixed

Beitrag von „al6042“ vom 5. September 2017, 15:29

Never saw that kind of change... that might come from the ACPIBatteryManager.

Beitrag von „Web Developer“ vom 5. September 2017, 16:31

[@al6042](#)

Ok, I test it more with both SSDT,

In the attachments you will find two screenshots of both my SSDT and [@iPhoneTruth](#) of Intel Power Gadget

Which one is better?

And about the Battery red icon problem, I noticed that it turn red after the battery decreased by about 3% for example: if the battery is 77% the icon will turned red after the battery decreased to %74

and if I make a sleep and wake for the laptop, the battery icon turned to black again!

Beitrag von „al6042“ vom 5. September 2017, 16:35

Try to use "Use dark menu bar and Dock" to see if the color-issue still exists.

I'm missing the attachments... 😊

Beitrag von „Web Developer“ vom 5. September 2017, 16:40

The battery problem not solved with "Use dark menu bar and Dock" 😞 and it show me the notification "Low Battery your Mac will sleep soon unless plugged into a power outlet." but its not sleeping after the message appear

and sorry for missing the attachments, now in the attachments 😊

UPDATE:

Another problem that I have a dual boot, macOS and Windows 10

in macOS the battery level is 61%

and if i reboot and entered Windows 10, I found the battery level is 55%

Is that normal?

Beitrag von „al6042“ vom 5. September 2017, 16:53

I would use your SSDT... it seems much more balanced for the CPU.

In regards to a possible difference in Battery data grabbed within a multi-boot-environment, I can't help you, since I don't have something to compare your findings.

Beitrag von „Web Developer“ vom 5. September 2017, 17:48

[@iPhoneTruth](#) Can you please confirm that you don't have difference in Battery data grabbed within a multi-boot-environment? I have 5% difference between macOS and Windows

Beitrag von „Web Developer“ vom 9. September 2017, 23:13

Hello [@al6042](#), I hope you are doing well,

The problem of macOS gives a low battery warning even is the battery more than 90% is not solved yet!

I checked Console.app and I found this message:

Code

1. ACPIBatteryManager: WARNING! fMaxCapacity > fDesignCapacity. adjusted fMaxCapacity from 4647, to 4400

Is this a problem?

My files in attachments and please notice that I install kext in the System volume instead of CLOVER/kext/Other

I asked RehabMan about the problem and he thinks that the problem happens because of ACPI is not patched correctly
can you help me please to patch it correctly

Beitrag von „al6042“ vom 9. September 2017, 23:44

Please try attached DSDT...

Beitrag von „Web Developer“ vom 10. September 2017, 00:13

[Zitat von al6042](#)

Please try attached DSDT...

Thank you for your efforts,

The new DSDT didn't solve the problem, macOS still gives a low battery warning even is the battery more than 90% and Console.app show this message:

Code

1. ACPIBatteryManager: WARNING! fMaxCapacity > fDesignCapacity. adjusted fMaxCapacity from 4647, to 4400

Beitrag von „al6042“ vom 10. September 2017, 00:16

In that case I will have to check the DSDT again tomorrow.

Beitrag von „Web Developer“ vom 10. September 2017, 17:58

[Zitat von al6042](#)

In that case I will have to check the DSDT again tomorrow.

I will be ready any time 😊

Beitrag von „al6042“ vom 10. September 2017, 20:45

I didn't had the chance to do anything in that matter...

EDIT:

Please try the attached file.

Beitrag von „Web Developer“ vom 10. September 2017, 21:40

[@al6042](#) Now when I connect the Charger the Battery indicator not showing that the Charger is connected!

also the Red Battery problem is not solved,

and I have these two messages in the log:

Code

1. kernel ACPIBatteryManager: WARNING! fMaxCapacity > fDesignCapacity. adjusted fMaxCapacity from 4647, to 4400
- 2.
- 3.
4. default 22:34:30.061785 +0300 kernel ACPIBatteryManager: WARNING! fCurrentCapacity > fMaxCapacity. adjusted fCurrentCapacity from 4633, to 4400

Beitrag von „al6042“ vom 10. September 2017, 21:42

Then you should use the original DSDT again...

Sorry, but I can't find the issue in the DSDT.

Maybe some of the other E560 Users can shed some light on this issue.

Beitrag von „Web Developer“ vom 13. September 2017, 09:50

Hello [@al6042](#)

I hope you are doing well,

I want to ask you question,

I just get my Battery Properties from AIDA64 windows programs and it report these Properties:

Code

1. Designed Capacity 47520 mWh
2. Fully Charged Capacity 50210 mWh

3. Current Capacity 44300 mWh (88 %)
4. Battery Voltage 12.447 V
5. Wear Level 0 %
6. Power State AC Line, Charging
7. Charge Rate 27980 mW

Can you update the DSDT in the attachments to reflect my battery Designed Capacity and Fully Charged Capacity, maybe my problem will be solved!

Thank you in advance

Beitrag von „griven“ vom 17. September 2017, 00:28

Well that isn't possible since these values are stored directly on the battery (it has some Logic on it to achieve this) and are only read by the OS through some ACPI calls. Where most of this values are static some of them can be also be modified...

Fully Charged Capacity = The overall Capacity all Cells in your battery are able to hold (static, can not be altered)

Desigend Capacity = The amount of Energie which is stored to your battery until the Logic considers it to be fully charged (can bei altered, normally it is set to 90% of the batteries max Value)

Current = well says it all 😊

On most laptops you are able to define a range in percent between min and max capacity of the battery where the computer runs without charging the battery even if a power supply is plugged or not. This range defines the point on which the battery logic decides that the battery is empty or fully charged (even if it's not completely charged or discharged).

Beitrag von „Web Developer“ vom 18. September 2017, 00:01

[Zitat von griven](#)

Well that isn't possible since these values are stored directly on the battery (it has some Logic on it to achieve this) and are only read by the OS through some ACPI calls. Where most of this values are static some of them can be also be modified...

Fully Charged Capacity = The overall Capacity all Cells in your battery are able to hold (static, can not be altered)

Desigend Capacity = The amount of Energie which is stored to your battery until the Logic considers it to be fully charged (can bei altered, normally it is set to 90% of the batteries max Value)

Current = well says it all 😊

On most laptops you are able to define a range in percent between min and max capacity of the battery where the computer runs without charging the battery even if a power supply is plugged or not. This range defines the point on which the battery logic decides that the battery is empty or fully charged (even if it's not completely charged or discharged).

[@griven](#) Thank you very much for you detailed information, you are awesome!
As I said earlier, I'm a beginner and I really don't know how to solve the battery problem,
Can you help me and we try together, maybe we will find the right solution!

Beitrag von „Web Developer“ vom 30. September 2017, 20:00

[@al6042](#) I have the following response from Harper Lewis:

Zitat von Harper Lewis

the battery patch applied to the DSDT is this one: RehabMan bat Lenovo X220. It looks like although it works for my E460 and your E560 the X220 differs a bit from our models. I am getting the battery warning during booting, too. The battery indicator works fine, though. The best solution would be to patch the DSDT from scratch, but that's beyond my knowledge.

I would be grateful if you help me to patch the DSDT from scratch
Thank you very much