

Laptops - FreeBSD Wiki

[Originalartikel](#)

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To improve FreeBSD support for various laptops, please share your experience with a particular laptop model you use daily or have occasional access to. This information can help users to decide if some model they want is worth buying to install FreeBSD and help interested developers to improve hardware support.

If you see a nice laptop in some electronic shop or at your friend's, try to boot a [http](http://ftp.freebsd.org/pub/FreeBSD/snapshots/ISO-IMAGES/12.0/) image to perform some simple tests and collect basic technical information. Assuming you're booting from a USB flash drive, enter LiveCD mode and do the following at least:

```
# mount -u -o rw / #
dmesg &gt; /dmesg.out # pciconf -lv &gt; /pciconf.out # devinfo -v &gt; /devinfo.out # acpidump -dt
&gt; /acpidump.out # mount -u -o ro / ; sync # zzz
```

The last command will send the laptop to sleep (suspend, S3). Try to resume it and see what happens. Don't forget to report

it here and attach those gathered files.

Other things worth looking into: LCD brightness, multimedia keys, and LED indicators behavior, expected battery life per `acpiconf`, CPU frequency scaling and fan control, correct reaction to `shutdown`, to name a few.

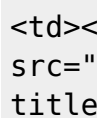
The table below lists the laptops we have at least some support for and describes what does and does not work; see below this table for the legend that explains the icons and columns.

Laptop support

Laptop
Graphics
External DP/HDMI/VGA
Sound
WiFi
Ethernet
USB
Suspend / Resume
Needs config
Year introduced

Graphics
External DP/HDMI/VGA
Sound
WiFi
Ethernet
USB
Suspend / Resume
Needs config
Year introduced

[Laptops/ASUS_FM200](https://wiki.freebsd.org/Laptops/ASUS_FM200)




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<td readability="9"><p class="line862"> 2017 wifi is ATH10K but field
replaceable, using intel drm-next drivers, suspend/resume, HDMI all works.
ethernet + HDMI require additional adapter. wifi support is coming in 12.x
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AVOID!</p></td>
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Gen</p></td>
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[illegible]

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<td><p class="line862">  drm-next </p></td>
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```
</tr><tr readability=„1“><td><p class=„line862“> <strong>Laptop</strong> </p></td>
```

```
<td><p class="line862"> <strong>Graphics</strong> </p></td>
<td readability="4"><p class="line862"> <strong>External
DP/HDMI/VGA</strong> </p></td>
<td><p class="line862"> <strong>Sound</strong> </p></td>
<td><p class="line862"> <strong><a
href="https://wiki.freebsd.org/WiFi">WiFi</a></strong> </p></td>
<td><p class="line862"> <strong>Ethernet</strong> </p></td>
<td><p class="line862"> <strong>USB</strong> </p></td>
<td><p class="line862"> <strong>Suspend / Resume</strong> </p></td>
<td><p class="line862"> <strong>Needs config</strong> </p></td>
<td><p class="line862"> <strong>Year introduced</strong> </p></td>
```

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```

```
<td><p class="line862"> <strong>Meaning</strong></p></td>
```

```
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src=„https://wiki.freebsd.org/moin_static199/modern/img/checkmark.png“ title=„(.)“
width=„20“/></p></td>
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```
<td readability="4"><p class="line862"> Works out of the box </p></td>
```

```
</tr><tr readability=„1“><td><p class=„line862“> <img alt=„{i}“ height=„16“
src=„https://wiki.freebsd.org/moin_static199/modern/img/icon-info.png“ title=„{i}“
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```
<td readability="4"><p class="line862"> Needs special configuration
</p></td>
```

```
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width=„15“/></p></td>
```

```
<td><p class="line862"> Untested/unknown </p></td>
```

```
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```
<td><p class="line862"> Does not work </p></td>
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```
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```
<td><p class="line862"> <strong>Meaning</strong> </p></td>
```

```
</tr><tr><td><p class=„line862“> Graphics </p></td>
```

```
<td><p class="line862"> X11 server works </p></td>
```

```
</tr><tr readability=„3“><td readability=„4“><p class=„line862“> External DP/HDMI/VGA
</p></td>
```

```
<td readability="4"><p class="line862"> Plugging in an external
VGA/HDMI/DisplayPort works (you can do presentations) </p></td>
```

```
</tr><tr readability=„1“><td><p class=„line862“> Sound </p></td>
```

```
<td readability="4"><p class="line862"> Bleep boop blop (you can play audio
files) </p></td>
```

```
</tr><tr readability=„1“><td><p class=„line862“> <a
href=„https://wiki.freebsd.org/WiFi“>WiFi</a> </p></td>
```

```
<td readability="4"><p class="line862"> Onboard wireless works </p></td>
```

```
</tr><tr readability=„1“><td><p class=„line862“> Ethernet </p></td>
```

```
<td readability="4"><p class="line862"> Onboard Ethernet (if available)
works </p></td>
```

```
</tr><tr><td><p class=„line862“> USB </p></td>
```

```
<td><p class="line862"> USB works </p></td>
```

```
</tr><tr readability=„1“><td><p class=„line862“> Suspend / Resume </p></td>
```

```
<td readability="4"><p class="line862"> Power saving and suspend/resume work
```

</p></td>

</tr><tr readability=„1“><td><p class=„line862“> Needs config </p></td>

<td readability="4"><p class="line862"> May need changes to boot loader scripts or other startup scripts to work </p></td>

</tr><tr readability=„1“><td><p class=„line862“> Year introduced </p></td>

<td readability="4"><p class="line862"> Helpful to know when a laptop was originally released so that old entries can be skipped </p></td>

</tr></tbody></table></div> </html>

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