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[RESOLVED] Realtek RTL8811AU USB WiFi is not working

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[RESOLVED] Realtek RTL8811AU USB WiFi is not working

 by **ineuw** » Sun Jul 15, 2018 10:16 pm

System specs:

```
CODE: SELECT ALL

ineuw@lm183dt64b ~ $ inxi -Fxz
System:    Host: lm183dt64b Kernel: 4.15.0-23-generic x86_64 (64 bit gcc: 5.4.0)
           Desktop: Cinnamon 3.6.7 (Gtk 3.18.9-1ubuntu3.3) Distro: Linux Mint 18.3 Sylvia
Machine:   Mobo: ASRock model: B360 Pro4
           Bios: American Megatrends v: P1.30 date: 05/25/2018
CPU:       Dual core Intel Pentium Gold G5600 (-HT-MCP-) cache: 4096 KB
           flags: (lm nx sse sse2 sse3 sse4_1 sse4_2 ssse3 vmx) bmips: 15648
           clock speeds: max: 3900 MHz 1: 2800 MHz 2: 2800 MHz 3: 2800 MHz 4: 2800 MHz
Graphics:  Card: Intel Device 3e91 bus-ID: 00:02.0
           Display Server: X.Org 1.18.4 drivers: fbdev,intel (unloaded: vesa)
```

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

```
                Resolution: 1920x1080@77.00hz
                GLX Renderer: llvmpipe (LLVM 6.0, 128 bits)
                GLX Version: 3.0 Mesa 18.0.5 Direct Rendering: Yes
```

```
ineuw@lm183dt64b ~ $ lsusb
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 001 Device 004: ID 0bda:8178 Realtek Semiconductor Corp. RTL8192CU 802.11n WLAN Adapter
Bus 001 Device 003: ID 0bda:0811 Realtek Semiconductor Corp.
Bus 001 Device 002: ID 25a7:fa67
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

Plugged both WiFi dongles. RTL8192CU is a 300 mbps 802.1n model sold under BOLSE. The RTL8811AU is a 600mbps 802.1ac model sold under Wide Tiger.
Neither are working but I see that the older model is recognized.

Last edited by ineuw on Sat Jul 28, 2018 3:36 pm, edited 2 times in total.

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Mon Jul 16, 2018 2:36 am

JeremyB, LM 18.3 is installed, updated, and working fine. Now I have ethernet but no WiFi (which I will fix later). The Realtek chip RTL8811AU does not have drivers for some Linux kernels, but there is a driver in the Ubuntu repository for a similar RTL chip which is supposed to work, and will try it later today. Also, there may be a 3rd party driver on github. Will post the results. Thanks for your help.

Last edited by ineuw on Mon Jul 16, 2018 3:30 pm, edited 1 time in total.

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

Re: Realnet RTL8811AU USB WiFi is not working

by **JeremyB** » Mon Jul 16, 2018 5:22 am

Do

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

```
sudo apt-get install dkms git build-essential
git clone https://github.com/abperiasamy/rtl8812AU_8821AU_linux.git
cd rtl8812AU_8821AU_linux
sudo make -f Makefile.dkms install
```

Reboot and check BIOS/UEFI settings to make sure Secure Boot is disabled and it should work

JeremyB   Moderator @ Linux Mint

[Wireless Script](#)

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Tue Jul 17, 2018 11:11 pm

> **JeremyB wrote:** ↑   Mon Jul 16, 2018 5:22 am
>
> Do
>
> CODE: SELECT ALL
> ```
> sudo apt-get install dkms git build-essential
> git clone https://github.com/abperiasamy/rtl8812AU_8821AU_linux.git
> cd rtl8812AU_8821AU_linux
> sudo make -f Makefile.dkms install
> ```
>
> Reboot and check BIOS/UEFI settings to make sure Secure Boot is disabled and it should work

jeremy8, unfortunately, this didn't work for me and apologize for the long delay in replying.
P.S: Secure Boot is always off.

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Wed Jul 18, 2018 7:28 am

See the wireless script link in my signature and post results

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

Wireless Script

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Wed Jul 18, 2018 2:47 pm

CODE: SELECT ALL

```
########## wireless info START ##########

Report from: 18 Jul 2018 14:42 EDT -0400

Booted last: 18 Jul 2018 00:00 EDT -0400

Script from: 10 Jan 2018 20:04 UTC +0000

##### release #########################

Distributor ID: LinuxMint
Description:    Linux Mint 18.3 Sylvia
Release:       18.3
```

Last edited by **JeremyB** on Wed Jul 18, 2018 4:36 pm, edited 1 time in total.
Reason: *code tags*

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Wed Jul 18, 2018 4:42 pm

What is the result for

CODE: SELECT ALL

```
modprobe -c | grep 0811; locate rtl8812au.ko
```

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

Wireless Script

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Wed Jul 18, 2018 9:07 pm

After my last post, removed all traces of the rtl8812 installation attempt and reinstalled it, so that you can see the error messages the process generates during the installation. The results of

`modprobe -c | grep 0811; locate rtl8812au.ko` returned nothing.See end of post.

CODE: SELECT ALL

```
ineuw@lm183dt64b ~ $ sudo apt install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.7.4-0ubuntu1.4).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ineuw@lm183dt64b ~ $ git clone https://github.com/gnab/rtl8812au.git
Cloning into 'rtl8812au'...
remote: Counting objects: 607, done.
remote: Total 607 (delta 0), reused 0 (delta 0), pack-reused 607
Receiving objects: 100% (607/607), 1.80 MiB | 0 bytes/s, done.
Resolving deltas: 100% (242/242), done.
Checking connectivity... done.
```

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Thu Jul 19, 2018 4:56 am

I am not sure why this happened

CODE: SELECT ALL

```
ineuw@lm183dt64b ~ $ sudo dkms add ./rtl8812au
```

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

Creating symlink /var/lib/dkms/rtl8812au/4.2.2/source ->
                /usr/src/rtl8812au-4.2.2

As after I cloned that repo, I got this for a result

```
sudo dkms add ./rtl8812au
[sudo] password for jeremy:

Creating symlink /var/lib/dkms/8812au/4.2.2/source ->
                /usr/src/8812au-4.2.2
```

Post results for

```
cat /var/lib/dkms/rtl8812au/4.2.2/build/make.log
```

JeremyB   Moderator @ Linux Mint

[Wireless Script](#)

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Thu Jul 19, 2018 5:22 am

```
ineuw@lm183dt64b ~ $ cat /var/lib/dkms/rtl8812au/4.2.2/build/make.log
DKMS make.log for rtl8812au-4.2.2 for kernel 4.15.0-23-generic (x86_64)
Wed Jul 18 01:08:38 EDT 2018
make ARCH=x86_64 CROSS_COMPILE= -C /lib/modules/4.15.0-23-generic/build M=/var/lib/dkms/rtl8812
make[1]: Entering directory '/usr/src/linux-headers-4.15.0-23-generic'
Makefile:976: "Cannot use CONFIG_STACK_VALIDATION=y, please install libelf-dev, libelf-devel or
  CC [M]  /var/lib/dkms/rtl8812au/4.2.2/build/core/rtw_cmd.o
In file included from /var/lib/dkms/rtl8812au/4.2.2/build/include/osdep_service.h:41:0,
                 from /var/lib/dkms/rtl8812au/4.2.2/build/include/drv_types.h:32,
                 from /var/lib/dkms/rtl8812au/4.2.2/build/core/rtw_cmd.c:22:
/var/lib/dkms/rtl8812au/4.2.2/build/include/osdep_service_linux.h: In function '_init_timer':
```

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

```
/var/lib/dkms/rtl8812au/4.2.2/build/include/osdep_service_linux.h:257:8: error: '_timer {aka st
```

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Thu Jul 19, 2018 5:27 am

That source code is not patched for the 4.15 kernel. Try my suggestion again, reboot and post results for

CODE: SELECT ALL

```
modprobe -c | grep 0811; locate rtl8812au.ko
```

JeremyB   Moderator @ Linux Mint

[Wireless Script](#)

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Thu Jul 19, 2018 5:53 am

After reboot:

ineuw@lm183dt64b ~ $ modprobe -c | grep 0811; locate rtl8812au.ko
alias usb:v0BDAp0811d*dc*dsc*dp*ic*isc*ip*in* rtl8812au

I also executed the previous command and I checked the folder there is no make.log

ineuw@lm183dt64b ~ $ cat /var/lib/dkms/rtl8812au/4.3.14/build/make.log
cat: /var/lib/dkms/rtl8812au/4.3.14/build/make.log: No such file or directory

Last edited by ineuw on Thu Jul 19, 2018 5:59 am, edited 1 time in total.

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Thu Jul 19, 2018 5:56 am

Any results for

CODE: SELECT ALL

```
sudo modprobe -v rtl8812au
```

JeremyB   Moderator @ Linux Mint

[Wireless Script](#)

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Thu Jul 19, 2018 6:01 am

neuw@lm183dt64b ~ $ sudo modprobe -v rtl8812au

insmod /lib/modules/4.15.0-23-generic/kernel/drivers/net/rtl8812au.ko

modprobe: ERROR: could not insert 'rtl8812au': Unknown symbol in module, or unknown parameter (see dmesg)

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Thu Jul 19, 2018 6:04 am

Lets try without dkms

CODE: SELECT ALL

```
cd rtl8812AU_8821AU_linux
make clean
make
sudo make install
```

Reboot and see if it works

Wireless Script

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Thu Jul 19, 2018 6:08 am

Executed dmesg and it's an 858 line document so it's better if I upload it as a zip file.

ATTACHMENTS

180718-rtl8812au-dmesg-results.txt.zip
(16.27 KiB) Downloaded 139 times

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Thu Jul 19, 2018 6:13 am

> **JeremyB wrote:** ↑   Thu Jul 19, 2018 6:04 am
>
> Lets try without dkms
>
> CODE: SELECT ALL
>
> ```
> cd rtl8812AU_8821AU_linux
> make clean
> make
> sudo make install
> ```
>
> Reboot and see if it works

All the steps until make install were successful. 🙂

CODE: SELECT ALL

```
ineuw@lm183dt64b ~/rtl8812AU_8821AU_linux $ sudo make install
[sudo] password for ineuw:
install -p -m 644 rtl8812au.ko  /lib/modules/4.15.0-23-generic/kernel/drivers/net/wireless/
```

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

```
install: target '/lib/modules/4.15.0-23-generic/kernel/drivers/net/wireless/' is not a directory
Makefile:1590: recipe for target 'install' failed
make: *** [install] Error 1
```

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Thu Jul 19, 2018 6:18 am

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

That is strange, what about

CODE: SELECT ALL

```
dkms status
```

JeremyB   Moderator @ Linux Mint

Wireless Script

Re: Realtek RTL8811AU USB WiFi is not working

by **ineuw** » Sun Jul 22, 2018 1:52 pm

ineuw
Level 5

Posts: 527
Joined: Sun Nov 13, 2016 12:27 am
Location: Montreal

JeremyB, installed the latest kernel 4.15.0-29 and it works, (as opposed to 4.15.0-24, which does not). I repeated the instructions from github and this is the error I received from:

CODE: SELECT ALL

```
sudo make -f Makefile.dkms install

make clean
make[1]: Entering directory '/home/ineuw/rtl8812AU_8821AU_linux'
make ARCH=x86_64 CROSS_COMPILE= -C /lib/modules/4.15.0-29-generic/build M=/home/ineuw/rtl8812AU
make[2]: Entering directory '/home/ineuw/rtl8812AU_8821AU_linux'
make[2]: *** /lib/modules/4.15.0-29-generic/build: No such file or directory.  Stop.
make[2]: Leaving directory '/home/ineuw/rtl8812AU_8821AU_linux'
Makefile:1605: recipe for target 'clean' failed
make[1]: *** [clean] Error 2
```

```
make[1]: Leaving directory '/home/ineuw/rtl8812AU_8821AU_linux'
Makefile.dkms:11: recipe for target 'src_install' failed
make: *** [src install] Error 2
```

Desktop:Windows 10 1909 and Linux Mint 20.0 Cinnamon 16gb RAM

Re: Realtek RTL8811AU USB WiFi is not working

by **JeremyB** » Sun Jul 22, 2018 2:06 pm

try

CODE: SELECT ALL

```
sudo apt-get install linux-headers-generic
```

Then see if it builds

JeremyB   Moderator @ Linux Mint

[Wireless Script](#)

JeremyB
Level 20

Posts: 11789
Joined: Fri Feb 21, 2014 8:17 am

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