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Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

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Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Julien69 November 28th, 2015, 10:01 am Hello,

I recently bought an PC Engines APU1D4 with a WLE600VX wlan card (see links below if you need more information) in order to replace my old Linksys WRT54GL.

http://www.pceingines.ch/wle600vx.htm http://www.complex.com.sg/product/wle600vx/

I was able to install the latest IPFire (with the full iso image) on a serial connection, but I can't get the Wi-Fi AP working.

I searched this forum and found 3 topics about the ath10k driver which is used for wlan card

Here are information I can give you to help me and the following steps I did :

```
CODE: SELECT ALL
[root@apu1d4 ~]# lspci | grep Qualcomm
04:00.0 Ethernet controller: Qualcomm Atheros Device abcd (rev 01)
```

```
CODE: SELECT ALL
[root@apu1d4 ~]# uname -a
Linux apu1d4 3.14.43-ipfire #1 SMP Sat Oct 24 12:53:32 GMT 2015 i686 GNU/Linux
```

```
CODE: SELECT ALL
[root@apu1d4 ~]# modinfo ath10k_pci
Filename: /lib/modules/3.14.43-ipfire/kernel/drivers/net/wireless/ath/ath10k/ath10k_pci.ko
Firmware: ath10k/QCA988X/hw2.0/board.bin
firmware: ath10k/QCA988X/hw2.0/[b]firmware-3.bin[b]
license: Dual BSD/GPL
description: Driver support for Atheros QCA988X PCIe devices
author: Qualcomm Atheros
version: backported from Linux (v3.18.1-0-g939ca484) using backports v3.18.1-0-g959ec4c
srcversion: 5CD35DED4B7604922CA09B
alias: pci:v0000168C:0000003C:sv*sd*bc*sc*i*
depends: ath10k_core,compat
vermagic: 3.14.43-ipfire SMP mod_unload modversions 586TSC REFCOUNT GRSEC
parm: irq_mode=0,auto,1; legacy,2; msi (default: 0) (uint)
reset_mode=0,auto,1; warm_reset (default: 0) (uint)
```

As SharkMan explained in his topic (viewtopic.php?f=50&t=12224) I downloaded two firmwares and pushed them in the right (missing) directory

board.bin from https://github.com/kvalo/ath10k-firmware...er/QCA988X firmware-2-ct-full-community.bin renamed into firmware-2 from http://www.candelatech.com/downloads/fi...munity.bin

```
CODE: SELECT ALL
[root@apu1d4 ~]# mkdir -p /lib/firmware/ath10k/QCA988X/hw2.0
[root@apu1d4 ~]# cp board.bin /lib/firmware/ath10k/QCA988X/hw2.0
[root@apu1d4 ~]# cp firmware-2.bin /lib/firmware/ath10k/QCA988X/hw2.0
```

Then I load the kernel module and try to execute setup again in order to change the configuration to green + red + blue as I found here http://wiki.ipfire.org/en/addons/wireless/start but I can't see my wlan card in the list of interfaces available

```
CODE: SELECT ALL
[root@apu1d4 ~]# modprobe ath10k_pci
[root@apu1d4 ~]# lsmod | grep ath10k
ath10k_core 326949 1 ath10k_pci
ath 17700 1 ath10k_core
mac80211 556694 1 ath10k_core
cfg80211 462636 3 ath,mac80211,ath10k_core
compat 4997 3 cfg80211,mac80211,ath10k_pci
[root@apu1d4 ~]# setup
```

Can you help me and tell me what I am missing ?

I have also some comments :

I noticed with the modinfo command that my version of ath10k driver needs a firmware-3.bin and not firmware-2.bin maybe it's a clue if it is what firmware do I need to download and from where ?

```
66
Re: Missing ath10k firmware & other issues
Postby Arne.F » December 31st, 2014, 9:27 am

The firmware pack in IPFire 2.17 is not up to date yet.

But it seems that the ath10k firmware is still missing in the official firmware repo for the kernel... http://git.kernel.org/cgi/linux/kernel...mware.git/
Maybe there are license issues.
Arne
```

It seems there are some firmwares available now since October 2015, maybe IPFire devs can include them in a next release so it makes things easier

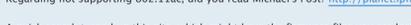
http://git.kernel.org/cgi/linux/kernel...p&q=ath10k

```
66
Re: ath10k
Postby Arne.F » December 31st, 2014, 9:11 am

Rtl8812 is not supported by the linux kernel yet (also with current 3.18.x) and hostapd of IPFire will not support ac. We also not spend time into this because it is nearly useless. (Blocks the whole wlan frequency range and have no coverage). See also Michaels Planet post: http://planet.ipfire.org/post/about-pol...-wifi-band
Arne
```

I'm not sure what it means : Will be no support of IEEE 802.11ac in future releases of IPFire for reasons mentioned in Michael post ? Anyway if I just want make a IEEE 802.11a/g/n Wi-Fi Access Point with my actual wlan card can I ?

Thanks you



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Julien69 December 2nd, 2015, 9:38 am Nobody can help me ?



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by trymes December 4th, 2015, 6:46 pm Regarding not supporting 802.11ac, did you read Michael's Post? http://planet.ipfire.org/post/about-pol...-wifi-band

A quick search turned up this site, which might have the firmware files you are looking for.: https://github.com/ajaybhatia/Qualcomm...377.tar.gz

Tom

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Julien69 December 13th, 2015, 5:42 pm Hello,

I finally get my WLE600VX wlan card worked I just re-download these firmwares...

board.bin from here firmware-2.bin_10.1.467.3-1 from here which I renamed into firmware-2.bin firmware-3.bin_10.2.2.39.6-1 from here which I renamed into firmware-3.bin ... put it in the right place

```
CODE: SELECT ALL
[root@apu1d4 ~]# mkdir -p /lib/firmware/ath10k/QCA988X/hw2.0
[root@apu1d4 ~]# cp board.bin /lib/firmware/ath10k/QCA988X/hw2.0
[root@apu1d4 ~]# cp firmware-2.bin /lib/firmware/ath10k/QCA988X/hw2.0
[root@apu1d4 ~]# cp firmware-3.bin /lib/firmware/ath10k/QCA988X/hw2.0

... load the modules

CODE: SELECT ALL
[root@apu1d4 ~]# modprobe ath10k_pci
[root@apu1d4 ~]# lsmod | grep ath10k
ath10k_core 126949 1 ath10k_pci
ath 17700 1 ath10k_core
mac80211 556694 1 ath10k_core
cfg80211 462636 3 ath,mac80211,ath10k_core
compat 4997 3 cfg80211,mac80211,ath10k_pci

... check which firmware version is used (according to here and the kernel version we need to use firmware 10.2 which is firmware-3.bin

CODE: SELECT ALL
[root@apu1d4 ~]# uname -a
Linux apu1d4 3.14.57-ipfire #1 SMP Thu Dec 3 18:08:59 GMT 2015 i686 GNU/Linux

CODE: SELECT ALL
[root@apu1d4 ~]# modinfo ath10k_pci
Filename: /lib/modules/3.14.43-ipfire/kernel/drivers/net/wireless/ath/ath10k/ath10k_pci.ko
Firmware: ath10k/QCA988X/hw2.0/board.bin
firmware: ath10k/QCA988X/hw2.0/[b]firmware-3.bin[b]
license: Dual BSD/GPL
description: Driver support for Atheros QCA988X PCIe devices
author: Qualcomm Atheros
version: backported from Linux (v3.18.1-0-g939ca484) using backports v3.18.1-0-g959ec4c
srcversion: 5CD35DED4B7604922CA09B
alias: pci:v0000168C:0000003C:sv*sd*bc*sc*i*
depends: ath10k_core,compat

CODE: SELECT ALL
[root@apu1d4 ~]# ethtool -i blue0
driver: ath10k_pci
version: 3.14.57-ipfire
firmware-version: 10.2.2.39.6-1
bus-info: 0000:04:00.0
supports-statistics: yes
supports-test: no
supports-eprom-access: no
supports-register-dump: no
supports-priv-flags: no
```

Finally I run Setup again to configure my blue interface

```
CODE: SELECT ALL
[root@apu1d4 ~]# setup
```

I have a last question regarding the HT caps in the WLAN AP configuration page I download the datasheet of my wlan card here and set these HT caps :

[OFDM][BPSK][QPSK][16-QAM][64-QAM][256-QAM][LDPC]

Is it correct or did I miss one ?

P.S.: If someone can add the wlan card to the Network Adapter Hardware Compatibility List it will be helpful.

Thanks

Last edited by Julien69 on March 1st, 2017, 11:19 am, edited 1 time in total.



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by trymes December 13th, 2015, 11:35 pm Thanks for the update, I'm sure someone will find this useful in the future.

```
66
P.S.: If someone can add the wlan card to the Network Adapter Hardware Compatibility List it will be helpful.
```

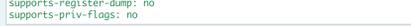
That would be helpful! Luckily, the list is part of the wiki, so you can update it yourself (hint,hint). :-)

Let us know if you have any trouble.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Julien69 December 18th, 2015, 12:43 pm Wiki update done, I just have to complete pci ID when I get home, let me know if it's OK.

Can anybody confirm or give me some advices for the HT Caps ?



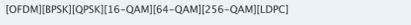
Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by MichaelTremmer December 18th, 2015, 1:35 pm 66 Julien69 wrote: It seems there are some firmwares available now since October 2015, maybe IPFire devs can include them in a next release so it makes things easier

I could not find a license for these files. If we don't have the right to redistribute the files, we cannot do that.

-Michael

Support the project with our Donation Challenge! Get Commercial Support for IPFire and more from Lightning Wire Labs!



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

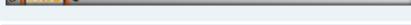
by Julien69 December 18th, 2015, 5:32 pm It's not that ? http://git.kernel.org/cgi/linux/kernel...1366cf10dc



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by MichaelTremmer December 18th, 2015, 9:24 pm This is a different repository though. If these firmware files are working well, we could include them with one of the next updates.

Support the project with our Donation Challenge! Get Commercial Support for IPFire and more from Lightning Wire Labs!



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by SilverPhoenix December 23rd, 2015, 8:20 pm 66 MichaelTremmer wrote: This is a different repository though. If these firmware files are working well, we could include them with one of the next updates.

I would very much appreciate this as well.

I was just now looking into if I can upgrade my APU1C4 to support 802.11ac with the WLE600VX card. My first step was to check the ipfire forum to check if anyone was talking about it. From the above, sounds like it's working but until it is included with the ipfire update I would have to backtrack through the trail Julien69 left behind to get it up and running.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Daniel L. January 15th, 2016, 9:24 am 66 You can get it working but it needs manual intervention (see viewtopic.php?f=27&t=15300&p=92586&hlit=ath10k#p93811). I've a Complex WLE900VX and WLE200NX both working fine.

For ac you need to set the VHT caps. I can paste my hostapd.conf later, when I'm back home.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by digiz12 January 21st, 2016, 5:31 pm 66 Please paste hostapd.conf!

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Daniel L. January 22nd, 2016, 11:04 am 66 CODE: SELECT ALL driver=n180211 interface=your_wlan_device bssid=mac_of_your_wlan_device logger_syslog_level=1 logger_syslog_level=0 logger_stdout_level=1 logger_stdout_level=0 ctrl_interface=var/run/hostapd ctrl_interface_group=0 ssid=your_network_name country_code=your_country_code ieee80211d=1 ieee80211h=1

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

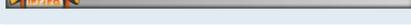
by cfusco August 21st, 2016, 11:05 pm 66 Hello, I just installed IPFire 2.19 (x86_64) - core103 on a Pcenignes apu2c4 http://www.pceingines.ch/apu2c4.htm with Complex WLE600VX wifi card http://www.pceingines.ch/pdf/wle600vx.pdf. The installation went very smoothly. The card worked pretty much out of the box, I had only to install hostapd with Pacfire. The /etc/hostapd.conf generated by the web interface works well, if you don't mess up the channels. Overall it was safer and more reliable to add:

```
CODE: SELECT ALL
channel=0
```

to allow the automatic search. I wish the option would be available in the web interface among the list of channels.

In order to have 802.11ac working I had to struggle a bit, however finally I determined that this hostapd.conf works pretty well:

```
CODE: SELECT ALL
##### basic hostapd configuration #####
#
interface=blue0
country_code=your country code
ieee80211d=1
ieee80211h=1
channel=0
#acs_num_scs=5
#ocs_chan_bios=52:0:8 56:0:8 60:0:8 64:0:8
hw_mode=d
ieee80211n=1
ht_capab=[HT40-][LDPC][SHORT-GI-20][SHORT-GI-40][TX-STBC][RX-STBC1][DSSS_CCK-40][SMPS-STATIC]
ieee80211ac=1
```



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco August 23rd, 2016, 4:41 pm 66 Is there any objection if I change the wiki to state that now this card works out of the box, at least for 802.11n?



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Daniel L. January 22nd, 2016, 11:04 am 66 CODE: SELECT ALL driver=n180211 interface=your_wlan_device bssid=mac_of_your_wlan_device logger_syslog_level=1 logger_syslog_level=0 logger_stdout_level=1 logger_stdout_level=0 ctrl_interface=var/run/hostapd ctrl_interface_group=0 ssid=your_network_name country_code=your_country_code ieee80211d=1 ieee80211h=1

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco August 23rd, 2016, 11:05 pm 66 Hello, I just installed IPFire 2.19 (x86_64) - core103 on a Pcenignes apu2c4 http://www.pceingines.ch/apu2c4.htm with Complex WLE600VX wifi card http://www.pceingines.ch/pdf/wle600vx.pdf. The installation went very smoothly. The card worked pretty much out of the box, I had only to install hostapd with Pacfire. The /etc/hostapd.conf generated by the web interface works well, if you don't mess up the channels. Overall it was safer and more reliable to add:

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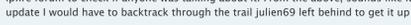
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```
CODE: SELECT ALL
##### basic hostapd configuration #####
#
interface=blue0
country_code=your country code
ieee80211d=1
ieee80211h=1
channel=0
#ocs_num_scs=5
#ocs_chan_bios=52:0:8 56:0:8 60:0:8 64:0:8
hw_mode=d
ieee80211n=1
ht_capab=[HT40-][LDPC][SHORT-GI-20][SHORT-GI-40][TX-STBC][RX-STBC1][DSSS_CCK-40][SMPS-STATIC]
ieee80211ac=1
```



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco August 23rd, 2016, 4:41 pm 66 Is there any objection if I change the wiki to state that now this card works out of the box, at least for 802.11n?

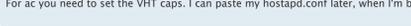


Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

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Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

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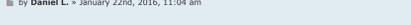
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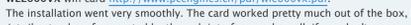
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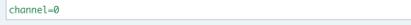
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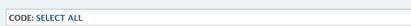
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Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

Post Reply

Search this topic...

38 posts

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco » August 31st, 2016, 11:34 am

cfusco wrote:
Is there any objection if I change the wiki to state that now this card works out of the box, at least for 802.11n?

Since there were no objections so far, I changed the wiki to reflect my experience. Feel free to revert the change if you don't like it.



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by c17rix » September 24th, 2016, 12:44 am

Hello,
Sorry for this stupid question but I can't find a way to get my WLE600VX working with the hostpad.conf given by cfusco.

This is what I've done :
Installed IPFire 105
Enabled the RED+GREEN+BLUE network type
Configured the interfaces
Enabled DHCP for the blue interface
Installed hostpad from Pakfire
Replaced the content of "/etc/hostpad.conf" by this provided by cfusco

I can create an AN AP but not AC and the maximum bandwidth I'm getting is around 130Mbit/s.
I'm sure it's a stupid mistake I made but I can't find any solution.
Thank you in advance !



PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

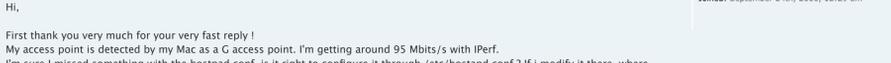
by Arne.F » September 24th, 2016, 6:39 am

Have you tested real data transfer? If yes 130Mbit/s if already AC because the advertised 300Mbit/s of an N wlan can transfer around 100Mbit/s data. The 300Mbit is a raw bitfrequency without management traffic and wlan need around 2 bits management for one bit userdata.

The cards slow also down if there is no traffic to save energy.
Test the speed with iperf (single direction)

Arne

Support the project on the [donation!](#)



PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by c17rix » September 24th, 2016, 9:52 am

Hi,
First thank you very much for your very fast reply !
My access point is detected by my Mac as a G access point. I'm getting around 95 Mbits/s with IPerf.
I'm sure I missed something with the hostpad.conf, is it right to configure it through /etc/hostpad.conf ? If I modify it there, where should I restart hostpad because the ssid showed in the web ui isn't the the one in /etc/hostpad.conf ?
I'm sure it's something obvious but I can't find an answer, sorry.

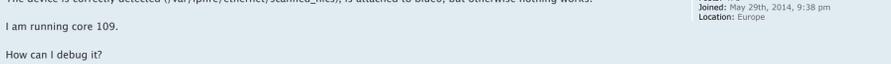
Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Arne.F » September 25th, 2016, 9:42 pm

2.4Ghz can never use the "AC" mode. The highest mode is G+N for 2.4Ghz. You have to use the 5Ghz "A" Band.

Arne

Support the project on the [donation!](#)



PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by H&M » April 5th, 2017, 7:24 pm

Hi,
I can't make it work WLE600VX.
Although I copied above hostpad.conf, the hostpad service starts and stops immediately with no error message or whatsoever in log (/var/log/messages).
The device is correctly detected (/var/ipfire/ethernet/scanned_nics), is attached to blue0, but otherwise nothing works.
I am running core 109.
How can I debug it?
Late edit: country is taken from /var/ipfire/wlanap/settings instead of using hostpad.conf.
Found problem: hostpad.conf had some spaces after some lines.
Even a single space makes the service to fail starting!
This is weird.
Now it works but in an mode. AC mode simply don't work for this card...yet.
Thank you,
H&M

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco » August 3rd, 2018, 12:49 pm

After I updated to IPFire 2.21 (x86_64) - core122 the card stopped working. It was working perfectly with all the previous versions of IPFire.

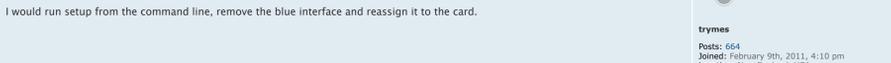
I can't find anything wrong but there is no wifi signal. The card is recognized by the kernel

```
CODE SELECT ALL
[root@ipfire ethernet]# lspci -nn | grep 0280
01:00:00 Network controller [0280]: Qualcomm Atheros QCA986x/988x 802.11ac Wireless Network Adapter [168c:003c]
```

No error messages in the dmesg nor in /var/log/messages.

```
Also:
CODE SELECT ALL
[root@ipfire ethernet]# cat /var/ipfire/ethernet/scanned_nics
desc: "pci: Intel Corporation I210 Gigabit Network Connection (rev 03)"
driver: igb
network_hwaddr: 00:0d:b9:42:68:90
desc: "pci: Intel Corporation I210 Gigabit Network Connection (rev 03)"
driver: igb
network_hwaddr: 00:0d:b9:42:68:91
desc: "pci: Intel Corporation I210 Gigabit Network Connection (rev 03)"
driver: igb
network_hwaddr: 00:0d:b9:42:68:92
desc: "pci: Qualcomm Atheros QCA986x/988x 802.11ac Wireless Network Adapter"
driver: ath10k_pci
network_hwaddr: 04:f0:21:27:1d:44
```

What can I do to troubleshoot the problem?



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by trymes » August 3rd, 2018, 1:12 pm

I would run setup from the command line, remove the blue interface and reassign it to the card.

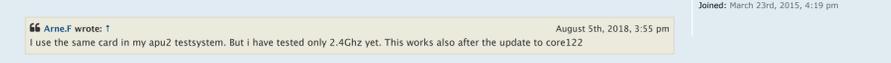
Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Arne.F » August 5th, 2018, 3:55 pm

I use the same card in my apu2 testsystem. But I have tested only 2.4Ghz yet. This works also after the update to core122

Arne

Support the project on the [donation!](#)



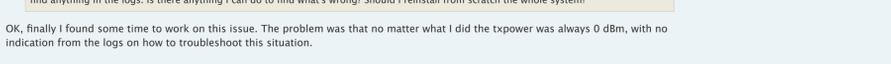
PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco » August 12th, 2018, 1:07 pm

Arne.F wrote: 1 August 5th, 2018, 3:55 pm
I use the same card in my apu2 testsystem. But I have tested only 2.4Ghz yet. This works also after the update to core122

The card seems dead. I tried to do again the setup and it didn't work. I also tried 2.4Ghz and didn't work. No signal is emitted, but I can't find anything in the logs. Is there anything I can do to find what's wrong? Should I reinstall from scratch the whole system?



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by cfusco » October 4th, 2018, 3:44 pm

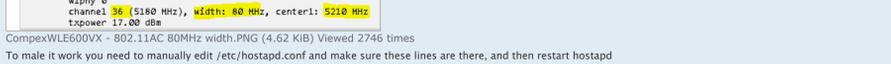
cfusco wrote: 1 August 12th, 2018, 1:07 pm
Arne.F wrote: 1 August 5th, 2018, 3:55 pm
I use the same card in my apu2 testsystem. But I have tested only 2.4Ghz yet. This works also after the update to core122

The card seems dead. I tried to do again the setup and it didn't work. I also tried 2.4Ghz and didn't work. No signal is emitted, but I can't find anything in the logs. Is there anything I can do to find what's wrong? Should I reinstall from scratch the whole system?

OK, finally I found some time to work on this issue. The problem was that no matter what I did the txpower was always 0 dBm, with no indication from the logs on how to troubleshoot this situation.

Because Arne suggestion of using the 2.4 Ghz didn't work initially, I decided to remove completely the HT Caps line in the web interface and see if the default values would finally turn on the power, then I changed to HW Mode 802.11gn and magically the txpower went back to 20.0 dBm. Subsequently I did put back the HT Caps for the 5 Ghz setting, switched back to 802.11an and now it works also for the 5 Ghz. I don't know what to think. Weirdness of the firmware? Anyway, now it works. I am using core update 123.

Thanks.



Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by H&M » December 28th, 2018, 6:47 pm

Hello,
With core 125 the AC mode is supported: <https://blog.ipfire.org/post/ipfire-2-2-...-5-released>.
Late edit: on CentOS8 is working in AC mode with this config: http://www.pcengines.info/forums/?page=..._010E444D1

I used that cfg and seems to work: 80MHz width on AC mode

```
Wlan Status
Interface blue0
ifindex 10
udev b2c
addr 04:F0:21:2b:50:8e
ssid ap
type ap
wiphy 0
channel 36 (5180 MHz), width: 80 MHz, center1: 5210 MHz
txpower 17.00 dBm
```

ComplexWLE600VX - 802.11AC 80MHz width.PNG (4.62 KiB) Viewed 2746 times
To make it work you need to manually edit /etc/hostpad.conf and make sure these lines are there, and then restart hostpad (/etc/init.d/hostpad restart)

```
CODE SELECT ALL
ht_capab=[LDPC][HT40+][SMPS-STATIC][SHORT-GI-20][SHORT-GI-40][TX-STBC][RX-STBC1][DSSS_CCK-40]
vht_oper_chwidth=1
vht_oper_center_freq_seg0_idx=42
vht_capab=[MAX-MPDU-11454][RXLDPC][SHORT-GI-80][TX-STBC-2BY1][RX-STBC-1][MAX-A-MPDU-LEN-EXP7][RX-ANTENNA-PATTERN][TX-AN
```

These lines
vht_oper_chwidth=1
vht_oper_center_freq_seg0_idx=42

are erased as soon as WUI is used so fair notice: don't use anymore WUI after adding these lines!

Thank you,
H&M

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by Titania337 » May 13th, 2019, 7:21 pm

board.bin from here
firmware-2.bin_10.1.467.3-1 from here which I renamed into firmware-2.bin
firmware-3.bin_10.2.2.39.6-1 from here which I renamed into firmware-3.bin

These files are not there anymore. All I get is a 404 error.

This thread was started in 2015 and now in 2019 its still not working without tinkering?
Does this has a specific reason? (Just asking)

However, could anyone please explain how to get this card working (for noobs)?
I would've tried with these files mentioned above but they are gone as I already said.
Thanks in advance!

All I've done right now was putting the following lines into hostpad.conf but this wasn't enough obviously since I can't even find the SSID with my phone.

```
CODE SELECT ALL
ht_capab=[LDPC][HT40+][SMPS-STATIC][SHORT-GI-20][SHORT-GI-40][TX-STBC][RX-STBC1][DSSS_CCK-40]
vht_oper_chwidth=1
vht_oper_center_freq_seg0_idx=42
vht_capab=[MAX-MPDU-11454][RXLDPC][SHORT-GI-80][TX-STBC-2BY1][RX-STBC-1][MAX-A-MPDU-LEN-EXP7][RX-ANTENNA-PATTERN][TX-AN
```

and the log says:

```
CODE SELECT ALL
21:09:35 hostpad: blue0: IEEE 802.11 Hardware does not support configured channel
21:09:35 hostpad: blue0: IEEE 802.11 Configured channel (6) not found from the channel list of cu rrent m
```

modinfo ath10k_pci gives me a lot more output than what Julien69 posted in 2015:

```
CODE SELECT ALL
[root@ipfire ~]# modinfo ath10k_pci
Filename: /lib/modules/4.14.103-1pfire/kernel/drivers/net/wireless/ath/ath10k/ath10k_pci.ko.xz
Firmware: ath10k/QCA9377/hw1.0/board.bin
Firmware: ath10k/QCA9377/hw1.0/Firmware-5.bin
Firmware: ath10k/QCA6174/hw3.0/board-2.bin
Firmware: ath10k/QCA6174/hw3.0/board.bin
Firmware: ath10k/QCA6174/hw3.0/Firmware-6.bin
Firmware: ath10k/QCA6174/hw3.0/Firmware-5.bin
Firmware: ath10k/QCA6174/hw3.0/Firmware-4.bin
Firmware: ath10k/QCA6174/hw2.1/board-2.bin
Firmware: ath10k/QCA6174/hw2.1/board.bin
Firmware: ath10k/QCA6174/hw2.1/Firmware-5.bin
Firmware: ath10k/QCA6174/hw2.1/Firmware-4.bin
Firmware: ath10k/QCA9882/hw1.0/board-2.bin
```

edit:
I can't connect to the blue network no matter what hw mode, channel or ht caps I select.
My phone always stuck at "IP address is retrieved..."
I disable MAC filtering temporary until I get this all working, if that matters.

Re: Complex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by trymes » May 13th, 2019, 9:59 pm

Since this thread was originally started, the kernel and firmware in IPFire has been updated, and support for this chipset is built-in.

If you read the error you are getting, it says that channel 6 is not supported for mode 802.11a.

I would try selecting 802.11g and see what you get.

Tom

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Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

38 posts [1](#) [2](#) [3](#)

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **cfusco** • May 14th, 2019, 12:56 pm

cfusco
Posts: 184
Joined: March 23rd, 2015, 4:19 pm

trymes wrote: May 13th, 2019, 9:59 pm
 Since this thread was originally started, the kernel and firmware in IPFire has been updated, and support for this chipset is built-in.

If you read the error you are getting, it says that channel 6 is not supported for mode 802.11a.
 I would try selecting 802.11g and see what you get.

Tom

I agree with your opinion, I think the wrong channel is selected for the 802.11an standard, as channel 6 is not allowed in the 5 GHz range (see https://en.wikipedia.org/wiki/List_of_WLAN_channels). Would be useful for the user to make the WUI list only the allowed channels according to the choice of 802.11 standard. I wish I had the ability to code this and submit a patch.

Concerning the use of the 5 MHz I strongly suggest reading this blog post from Michael: <https://blog.ipfire.org/post/about-poll...-wifi-band>. Having said that, as a solution to the OP problem, in alternative to changing settings to the 802.11g standard and staying in the 5 GHz range, I would make sure that the country code is correctly selected (*) and I would use a different channel from the 6. For my country code (CH), with the same card, channel 36 works well in the 5 GHz range, as well as channel 44 (though only a width of 20 MHz instead of 40 MHz); otherwise all the other higher channels are not working for me, probably due to the need of Dynamic Frequency Selection (which I believe is disabled in the kernel) to use the frequencies reserved for radars (see log).

To have a bandwidth of 80 Mhz you need to add these 2 settings to /etc/hostapd.conf:

```
CODE:SELECT ALL
vht_oper_chwidth=1
vht_oper_center_freq_seg0_idx=42
```

which are deleted by the WUI if you hit save, as described [here](#)

This is the WLAN Status log for channel 36 with a 40 Mhz bandwidth (notice the arrow):

(*) EU and 00 (world) will [block](#) the AP mode at 5 GHz range

```
CODE:SELECT ALL
Interface blue0
  ifindex 5
  ndev 0x1
  addr XX:XX:XX:XX:XX:XX
  ssid XXXXX
  type AP
  wiphy 0
  channel 36 (5180 Mhz), width: 40 Mhz, center1: 5190 Mhz <---
  txpower 10.00 dBm
* 2412 Mhz [1] (20.0 dBm)
* 2417 Mhz [2] (20.0 dBm)
* 2422 Mhz [3] (20.0 dBm)
* 2427 Mhz [4] (20.0 dBm)
* 2432 Mhz [5] (20.0 dBm)
```

this is my HT Caps:

```
CODE:SELECT ALL
[HT40-][HT40+][LDP][SHORT-GI-20][SHORT-GI-40][TX-STBC][RX-STBC1][DSSS_CCK-40][SMPS-STATIC]
```



Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **Titania337** • May 14th, 2019, 3:33 pm

Titania337
Posts: 19
Joined: April 16th, 2019, 1:10 pm

trymes wrote: May 13th, 2019, 9:59 pm
 If you read the error you are getting, it says that channel 6 is not supported for mode 802.11a.
 I would try selecting 802.11g and see what you get.

Yes I can read that. And I already tried to change the channel to different ones. For example when I set it to 802.11g on channel 11 at least the network shows up in my phone and I don't get the error message of unsupported channel. But I can't connect to the network. It stays at "retrieving ip" as I wrote above. Here is the log:

```
CODE:SELECT ALL
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: pairwise key handshake completed (RSN)
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b RADIUS: starting accounting session 7648f429790DF E6
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.1X: authorizing port
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: received EAPOL-Key frame (4/4 Pairwise)
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: sending 3/4 msg of 4-Way Handshake
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: received EAPOL-Key frame (2/4 Pairwise)
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: sending 1/4 msg of 4-Way Handshake
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.1X: unauthorizing port
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: start authentication
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: event 1 notification
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.11: binding station to interface 'blue0'
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b MLME: MLME-DELETEKEYS.request(b4:9d:0b:95:c2:9b)
17:30:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b MLME: MLME-ASSOCIATE.indication(b4:9d:0b:95:c2:9b)
```

And in the end I'd like to use 802.11ac this should also work out of the box? (With HT-Caps?)
 Because when I use the HT-Caps suggested in [Hardware Compatibility List](#) I also can't get it to work.

edit:
 My country code is set to "DE".
 And I added the following to hostapd.conf

```
CODE:SELECT ALL
vht_oper_chwidth=1
vht_oper_center_freq_seg0_idx=42
```

then this shows up:

```
CODE:SELECT ALL
Interface blue0
  ifindex 7
  ndev 0x2
  addr 04:f0:21:4b:fb:fa
  ssid SecureWLAN
  type AP
  wiphy 0
```

but still on my phone I can't connect. It's still saying "retrieve IP address".

and when I add the ht_capab and vht_capab from [here](#), then I will get the "channel not supported" message again. No matter if I select channel 36 or 44 which should both work as I read [here](#).

edit:
 I just read some spots of [this post](#) and it looks interesting. I will read the whole article NOW.

But when I get it right, I should use 802.11n instead of 802.11ac - but in the IPFire I can't select 802.11n but only 802.11an or 802.11gn.
 Which one of them should I use?

trymes
Posts: 664
Joined: February 9th, 2011, 4:10 pm
Location: New England, USA

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **trymes** • May 14th, 2019, 6:34 pm

Titania337
Posts: 19
Joined: April 16th, 2019, 1:10 pm

Have you added the device to the Blue Access list? You will not be able to access the network (you can join, but not send traffic) until you add it as an allowed device on the Blue Access list, or alternatively, you can add the entire subnet and devices will automatically be permitted on the network, with an attendant reduction in security.

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **Titania337** • May 14th, 2019, 6:56 pm

Titania337
Posts: 19
Joined: April 16th, 2019, 1:10 pm

trymes wrote: May 14th, 2019, 6:34 pm
 Have you added the device to the Blue Access list? You will not be able to access the network (you can join, but not send traffic) until you add it as an allowed device on the Blue Access list, or alternatively, you can add the entire subnet and devices will automatically be permitted on the network, with an attendant reduction in security.

Yes I allowed the entire subnet until it works.

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **trymes** • May 14th, 2019, 8:43 pm

trymes
Posts: 664
Joined: February 9th, 2011, 4:10 pm
Location: New England, USA

Have you confirmed that DHCP is running on the blue interface?

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **Titania337** • May 15th, 2019, 2:19 pm

Titania337
Posts: 19
Joined: April 16th, 2019, 1:10 pm

Yes. DHCP is running on blue.

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **Titania337** • May 15th, 2019, 2:52 pm

Titania337
Posts: 19
Joined: April 16th, 2019, 1:10 pm

Okay, I did everything from the beginning now. Here is exactly what I did:

```
CODE:SELECT ALL
Country Code: DE
HW Mode: 802.11g
Channel: 13
HT Caps: empty
VHT Caps: empty
```

this gives me the following WLAN status:

```
CODE:SELECT ALL
Interface blue0
  ifindex 7
  ndev 0x2
  addr 04:f0:21:xx:xx:xx
  ssid xxx
  type AP
  wiphy 0
  channel 13 (2472 Mhz), width: 20 Mhz (no HT), center1: 2472 Mhz
  txpower 20.00 dBm
* 2412 Mhz [1] (20.0 dBm)
* 2417 Mhz [2] (20.0 dBm)
* 2422 Mhz [3] (20.0 dBm)
* 2427 Mhz [4] (20.0 dBm)
* 2432 Mhz [5] (20.0 dBm)
```

The WLAN shows up in my phone and I try to connect.

```
CODE:SELECT ALL
16:29:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b MLME: MLME-DELETEKEYS.request(b4:9d:0b:95:c2:9b)
16:29:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b MLME: MLME-DEAUTHENTICATE.indication(b4:9d:0b:95:c2:9b)
16:29:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.1X: deauthenticated
16:29:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.1X: unauthorizing port
16:29:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: event 3 notification
16:29:49 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: pairwise key handshake completed (RSN)
16:29:32 hostapd: blue0: STA b4:9d:0b:95:c2:9b RADIUS: starting accounting session 8f0c5057210DF F1
16:29:32 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.1X: authorizing port
16:29:32 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: received EAPOL-Key frame (4/4 Pairwise)
16:29:32 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: sending 3/4 msg of 4-Way Handshake
16:29:32 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: received EAPOL-Key frame (2/4 Pairwise)
16:29:31 hostapd: blue0: STA b4:9d:0b:95:c2:9b WPA: sending 1/4 msg of 4-Way Handshake
16:29:31 hostapd: blue0: STA b4:9d:0b:95:c2:9b IEEE 802.1X: unauthorizing port
```

My phone sticks at "retrieving IP address".
 - The DHCP server is enabled and correctly configured for Blue (I thought?)
 - in "access to blue" I allowed my whole blue network like 192.168.xx.0/24 without source MAC, so this should be fine too.

BUT HEY then I tried to restart the DHCP server once and this showed up in the log:

```
CODE:SELECT ALL
16:37:41 dhcpd: to which interface blue0 is attached. **
16:37:41 dhcpd: in your dhcpd.conf file for the network segment
16:37:41 dhcpd: you want, please write a subnet declaration
16:37:41 dhcpd: ** Ignoring requests on blue0. If this is not what
16:37:41 dhcpd: No subnet declaration for blue0 (no IPv4 addresses).
```

my dhcpd.conf looks like this (removed fixed leases, etc.)

```
CODE:SELECT ALL
deny bootp;
authoritative;
ddns-update-style none;

subnet 192.168.100.0 netmask 255.255.255.0 #GREEN
{
  range 192.168.100.200 192.168.100.254;
  option subnet-mask 255.255.255.0;
  option domain-name " ";
  option routers 192.168.100.1;
  option domain-name-servers 192.168.100.1;
  option ntp-servers 192.168.100.1;
  default-lease-time 3600;
  max-lease-time 7200;
}
```

As far as I can see there is a subnet declared.
 The config of blue0 looks similar to green0 (where DHCP is working just fine).
 I don't know... this IPFire is mobbing me or am I this stupid?

btw. for the blue DHCP should I enter IP of blue0 or green0? Currently I entered blue, but when I enter green it also doesn't work.

edit: I just rebooted the IPFire entirely and now I can connect successfully to the blue network.
 And my client receives an IP. No DHCP errors in the log.

WTF?
 And I found this: [viewtopic.php?t=17671](#)
 Looks like this bug is here since 2016! 🤔

edit2: this shows up in my wireless log:

```
CODE:SELECT ALL
17:22:36 kernel: ath10k_pci 0000:05:00.0 blue0: renamed from wlan0
17:22:36 kernel: ath10k_pci 0000:05:00.0: htt-ver 2.1 wmi-op 5 htt-op 2 cal opt max-sta 128 rsw 0 hwcrypt
17:22:36 kernel: ath10k_pci 0000:05:00.0: board_file opt 1 bmi_ld N/A crc32 beb7c08
17:22:36 kernel: ath10k_pci 0000:05:00.0: Direct firmware load for ath10k/QCA988X/hw2.0/board-2.bin failed
17:22:36 kernel: ath10k_pci 0000:05:00.0: firmware ver 10.2.4.1-0-00037 opt 5 features no-p2p,row-mode,mf
17:22:36 kernel: ath10k_pci 0000:05:00.0: kconfig debug 0 debugfs 0 tracing 0 dfs 0 testmode 0
17:22:36 kernel: ath10k_pci 0000:05:00.0: qca988x hw2.0 target 0x4100016c chip_id 0x043222ff sub 0000:0000
17:22:36 kernel: ath10k_pci 0000:05:00.0: Direct firmware load for ath10k/QCA988X/hw2.0/board-2.bin failed
17:22:36 kernel: ath10k_pci 0000:05:00.0: Direct firmware load for ath10k/cal-pci-0000:05:00.0.bin failed
17:22:36 kernel: ath10k_pci 0000:05:00.0: Direct firmware load for ath10k/pre-cal-pci-0000:05:00.0.bin failed
17:22:36 kernel: ath10k_pci 0000:05:00.0: pci irq msi oper_irq_mode 2 irq_mode 0 reset_mode 0
```

Doesn't look normal... but however... it works now. 🤔
 Should I be concerned about these entries in the wireless log?

Re: Compex WLE600VX Wlan (ath10k - Atheros QCA9882) not detected for Blue Interface

by **cfusco** • May 16th, 2019, 1:28 pm

cfusco
Posts: 184
Joined: March 23rd, 2015, 4:19 pm

Funny story. When I answered to your post, I first tried to change the channels on my ipfire a couple of times, to be sure I did not write something stupid. I did that remotely. Everything was looking normal. I also went back to my wife and was up.

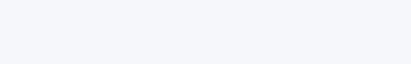
When I came back home, guess what? I could not get an IP for my phone. No trace of problems in the logs. I rebooted because I was too tired to try anything else, knowing that with Linux rarely a reboot fixes an issue. It did fix the issue this time.

I confess that I was reticent to suggest a reboot to you because it seemed to me really, really stupid, but after reading what you posted I wish I did just that. It could have saved a bit of pain to you. Sorry about that. Good job by the way. Good troubleshooting!

Concerning your logs, I got a similar error message when I rebooted:

```
CODE:SELECT ALL
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: pci irq msi oper_irq_mode 2 irq_mode 0 reset_mode 0
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: Direct firmware load for ath10k/pre-cal-pci-0000:01:00.0.bin failed
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: Direct firmware load for ath10k/cal-pci-0000:01:00.0.bin failed
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: Direct firmware load for ath10k/QCA988X/hw2.0/firmware-6.bin failed
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: qca988x hw2.0 target 0x4100016c chip_id 0x043222ff sub 0000:0000
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: kconfig debug 0 debugfs 0 tracing 0 dfs 0 testmode 0
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: firmware ver 10.2.4.1-0-00037 opt 5 features no-p2p,row-mode,mf
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: Direct firmware load for ath10k/QCA988X/hw2.0/board-2.bin failed
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: Direct firmware load for ath10k/cal-pci-0000:05:00.0.bin failed
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: Direct firmware load for ath10k/pre-cal-pci-0000:05:00.0.bin failed
May 14 21:45:26 ipfire kernel: ath10k_pci 0000:01:00.0: pci irq msi oper_irq_mode 2 irq_mode 0 reset_mode 0
```

Edit: it seems to be an innocuous logging error, see <https://forum.openwrt.org/t/ath10k-fail...-or-2/15113>.



38 posts [1](#) [2](#) [3](#)