## Subject: G5 won't recognise Airport Express card Posted by q3-5-list on Tue, 25 Nov 2014 01:10:03 GMT

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I have now installed TWO different Airport Extreme cards (A1026) in an early G5 tower (2.0GHz DP/PCI-X, or PowerMac 7,2).

Unfortunately, the Mac cannot "see" either of them. If I go into Network Diagnostics, "AirPort" is greyed-out/not selectable as an option. On "About this Mac", when you click to get info on Airport, nothing is found.

I've seated/re-seated the card(s) multiple times, pressed the CUDA switch, repaired permissions, I have no idea what else to do.

I installed the system software (Snow Leopard) BEFORE I got the card, but I cannot imagine that it would have had to be installed for the proper software to be there.

Anyone got any ideas? Since I've tried two cards, I think I can rule out the problem being the card.

Andy Berea, KY

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Subject: Re: G5 won't recognise Airport Express card Posted by Kris Tilford on Tue, 25 Nov 2014 01:14:47 GMT View Forum Message <> Reply to Message

On Nov 24, 2014, at 7:10 PM, 'mythmaker18' via G-Group <q3-5-list@googlegroups.com> wrote:

> Anyone got any ideas? Since I've tried two cards, I think I can rule out the problem being the card.

Perhaps going to System Preferences > Network will enable the card if Airport wasn't installed as a network device before? If there is an "Airport" device listed, and you still can't connect, you might delete the Airport, then reboot and see if the Mac can automatically detect the card and give the option of re-installing the device.

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Subject: Re: G5 won't recognise Airport Express card Posted by Fabian Fang on Tue, 25 Nov 2014 03:55:56 GMT View Forum Message <> Reply to Message

On Nov 24, 2014, at 5:10 PM, 'mythmaker18' via G-Group wrote:

> I have now installed TWO different Airport Extreme cards (A1026) in an early G5 tower (2.0GHz DP/PCI-X, or PowerMac 7,2).

>

> Unfortunately, the Mac cannot "see" either of them. If I go into Network Diagnostics, "AirPort" is greyed-out/not selectable as an option. On "About this Mac", when you click to get info on Airport, nothing is found.

>

> I've seated/re-seated the card(s) multiple times, pressed the CUDA switch, repaired permissions, I have no idea what else to do.

>

> I installed the system software (Snow Leopard) BEFORE I got the card, but I cannot imagine that it would have had to be installed for the proper software to be there.

Snow Leopard is not supported by Power Macs. It requires Intel processors.

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Subject: Re: G5 won't recognise Airport Express card Posted by g3-5-list on Tue, 25 Nov 2014 05:29:05 GMT

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Sorry, I meant to say I'm running Leopard, obviously. The question remains, though.

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Subject: Re: G5 won't recognise Airport Express card Posted by Kris Tilford on Tue, 25 Nov 2014 05:59:09 GMT

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On Nov 24, 2014, at 11:29 PM, 'mythmaker18' via G-Group <g3-5-list@googlegroups.com> wrote:

> Sorry, I meant to say I'm running Leopard, obviously. The question remains, though.

So what's it show in System Preferences > Network? Is there an "Airport" device shown? Is it "on"?

Have you tried deleting it, and rebooting, to see if the hardware is bad?

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Subject: Re: G5 won't recognise Airport Express card Posted by g3-5-list on Tue, 25 Nov 2014 13:16:34 GMT

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It does NOT appear in the "list" on the left-hand side of the System Preferences window, nor can it be added to it.

When I click the "assist me" button, then click on "diagnostics", where it says "choose network port configuration", AirPort is GREYED-OUT (i.e. not selectable) in the list of choices. It only alllows me to choose Ethernet or Other (I disconnected the Internal Modem, hoping that would help, but it didn't make any difference one way or the other).

I don't know what you mean by "deleting" it, since it's not on the list.

I've tried TWO different cards, both of which the seller says have been tested. I've seated them, re-seated them, rebooted, pressed the CUDA button, repaired disk permissions, everything I can think of.

On Tuesday, November 25, 2014 12:59:13 AM UTC-5, Kris Tilford wrote:

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> On Nov 24, 2014, at 11:29 PM, 'mythmaker18' via G-Group <
> g3-5...@googlegroups.com <javascript:>> wrote:
> Sorry, I meant to say I'm running Leopard, obviously. The question
> remains, though.
> So what's it show in System Preferences > Network?
> Is there an "Airport" device shown?
> Is it "on"?
> Have you tried deleting it, and rebooting, to see if the hardware is bad?
> --
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Subject: Re: G5 won't recognise Airport Express card Posted by Timothy Domst on Tue, 25 Nov 2014 21:32:33 GMT View Forum Message <> Reply to Message

https://discussions.apple.com/thread/814483?start=0&tst

You need an antenna, apparently.

Sent from my iPad

> On Nov 25, 2014, at 8:16 AM, 'mythmaker18' via G-Group <g3-5-list@googlegroups.com> wrote:

> It does NOT appear in the "list" on the left-hand side of the System Preferences window, nor can it be added to it.

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>

>

> When I click the "assist me" button, then click on "diagnostics", where it says "choose network port configuration", AirPort is GREYED-OUT (i.e. not selectable) in the list of choices. It only alllows me to choose Ethernet or Other (I disconnected the Internal Modem, hoping that would help, but it didn't make any difference one way or the other).

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> I don't know what you mean by "deleting" it, since it's not on the list.

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> I've tried TWO different cards, both of which the seller says have been tested. I've seated them, re-seated them, rebooted, pressed the CUDA button, repaired disk permissions, everything I can think of.

>

> >

- >> On Tuesday, November 25, 2014 12:59:13 AM UTC-5, Kris Tilford wrote:
- >>> On Nov 24, 2014, at 11:29 PM, 'mythmaker18' via G-Group <g3-5...@googlegroups.com> wrote:

>>>

>>> Sorry, I meant to say I'm running Leopard, obviously. The question remains, though.

>>

- >> So what's it show in System Preferences > Network?
- >> Is there an "Airport" device shown?
- >> Is it "on"?
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Subject: Re: G5 won't recognise Airport Express card Posted by ROBERT H. BAUCOM on Tue, 25 Nov 2014 22:19:15 GMT View Forum Message <> Reply to Message

I'm interested in the answers. My Quicksilver with a Sonnet 933 GHz board doesn't recognize the Airport Cards ... I've tried more than one.

I'd decided maybe the problem must be in the motherboard. But, when I substituted two other 867mhz Quicksilvers ... it did the same thing.

This sent by my mid 2012 Apple Pro Tower.

## RHB

If you think a computer is saving you time? I've a couple of underwater, swampland lots that you might be interested in buying.~The Ole Curmudgeon

On Nov 25, 2014, at 3:32 PM, Timothy Domst <ducati900fe081@gmail.com> wrote:

https://discussions.apple.com/thread/814483?start=0&tst

You need an antenna, apparently.

Sent from my iPad

On Nov 25, 2014, at 8:16 AM, 'mythmaker18' via G-Group <g3-5-list@googlegroups.com> wrote:

- > It does NOT appear in the "list" on the left-hand side of the System Preferences window, nor can it be added to it.
- > When I click the "assist me" button, then click on "diagnostics", where it says "choose network port configuration", AirPort is GREYED-OUT (i.e. not selectable) in the list of choices. It only allows me to choose Ethernet or Other (I disconnected the Internal Modem, hoping that would help, but it didn't make any difference one way or the other).
- > I don't know what you mean by "deleting" it, since it's not on the list.
- > I've tried TWO different cards, both of which the seller says have been tested. I've seated them, re-seated them, rebooted, pressed the CUDA button, repaired disk permissions, everything I can think of.

> > > On Tuesday, November 25, 2014 12:59:13 AM UTC-5, Kris Tilford wrote: > On Nov 24, 2014, at 11:29 PM, 'mythmaker18' via G-Group <g3-5...@googlegroups.com> wrote: > >> Sorry, I meant to say I'm running Leopard, obviously. The question remains, though. > So what's it show in System Preferences > Network? > Is there an "Airport" device shown? > Is it "on"? > Have you tried deleting it, and rebooting, to see if the hardware is bad? > > > --> You received this message because you are a member of G-Group, a group for those using G3, G4, and G5 desktop Macs - with a particular focus on Power Macs. > The list FAQ is at http://lowendmac.com/lists/g-list.shtml and our netiquette guide is at http://www.lowendmac.com/lists/netiquette.shtml > To post to this group, send email to g3-5-list@googlegroups.com > For more options, visit this group at http://groups.google.com/group/g3-5-list > > You received this message because you are subscribed to the Google Groups "G-Group"

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Subject: Re: G5 won't recognise Airport Express card Posted by g3-5-list on Wed, 26 Nov 2014 00:25:04 GMT

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Even without the antenna, the Mac itself should still be able to "see" the card plugged into the slot, even if it's got no range. The Mac literally doesn't think anything is plugged into the slot.

On Tuesday, November 25, 2014 4:32:38 PM UTC-5, Timothy wrote:

>

- > https://discussions.apple.com/thread/814483?start=0&tst
- > < https://www.google.com/url?q=https%3A%2F%2Fdiscussions.apple .com%2Fthread%2F814483%3Fstart%3D0%26tst&sa=D&sntz=1 &usg=AFQjCNFEG3YG1rjugzmSHdOrtAb5S1tisA>

>

> You need an antenna, apparently.

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>

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Subject: Re: G5 won't recognise Airport Express card Posted by Kris Tilford on Wed, 26 Nov 2014 06:14:37 GMT View Forum Message <> Reply to Message

On Nov 25, 2014, at 7:16 AM, 'mythmaker18' via G-Group <g3-5-list@googlegroups.com> wrote:

> It does NOT appear in the "list" on the left-hand side of the System Preferences window, nor can it be added to it.

>

> When I click the "assist me" button, then click on "diagnostics", where it says "choose network port configuration", AirPort is GREYED-OUT (i.e. not selectable) in the list of choices. It only alllows me to choose Ethernet or Other (I disconnected the Internal Modem, hoping that would help, but it didn't make any difference one way or the other).

>

> I don't know what you mean by "deleting" it, since it's not on the list.

>

> I've tried TWO different cards, both of which the seller says have been tested. I've seated them, re-seated them, rebooted, pressed the CUDA button, repaired disk permissions, everything I can think of.

I think I see the problem. This is a software issue.

The problem is likely that the 802.11 kext isn't loading.

Startup by doing a Safe Boot holding the shift key which will force a rebuilding of the kext cache, hopefully getting the 802.11 kexts to load. If the kexts load, you should be able to open System Preferences > Network and it will automatically offer to add the new device port "Airport". If this does NOT happen, then it's likely the kext is still failing to load. You can open Applications > Utilities > Terminal and use the command "kextstat" to so the list of loaded kexts. Within this list you'll be looking for "IO80211Family" and "AirPortBrcm43xx". If they aren't loaded, this is still the problem. At this point, it's probably simplest to "refresh" your System software by reinstalling the 10.5.8 Combo Update, which will give you a fresh, up-to-date copy of the latest updated software. If the card isn't recognized in System Preferences > Network, then you've got a more serious problem, perhaps a hardware issue?

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Subject: Re: G5 won't recognise Airport Express card Posted by Valter Prahlad on Thu, 27 Nov 2014 00:59:03 GMT View Forum Message <> Reply to Message

Il giorno 25/11/14 22.32, "Timothy Domst" ha scritto:

> https://discussions.apple.com/thread/814483?start=0&tst

>

> You need an antenna, apparently.

My experience says it isn't so.

I used a G5 DP 2,7 GHz for a couple years: it had the Airport card, but no antenna.

In my case, the G5 always detected the card, and it was even able to use it, but it had a meager receptivity: only if the source signal was within a meter, it could receive anything.

Hence, I think the OP problem is not about the missing antenna (although the antenna would be probably needed to properly use the card).

--

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Subject: Re: G5 won't recognise Airport Express card Posted by g3-5-list on Sun, 21 Dec 2014 22:32:01 GMT

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## Kris:

Thanks for the advice. After various family health issues (and deaths) since Thanksgiving, I only got around to giving this a try today.

As you suspected, those KEXTs are NOT installed. Unfortunately, none of the steps you suggested managed to install any of them. Even after running the 10.5.8 updater again, Airport still isn't able to be 'picked', and running the Terminal again, I can confirm the KEXTs still weren't installed after running the updater.

I don't guess you have any more ideas? Or do you think there's some hardware problem preventing the system from 'seeing' the card (and therefore preventing installation of those KEXTs with the updater)?

## Andy

On Wednesday, November 26, 2014 1:14:42 AM UTC-5, Kris Tilford wrote: > On Nov 25, 2014, at 7:16 AM, 'mythmaker18' via G-Group < > g3-5...@googlegroups.com <javascript:>> wrote: > It does NOT appear in the "list" on the left-hand side of the System > Preferences window, nor can it be added to it. > > When I click the "assist me" button, then click on "diagnostics", where it > says "choose network port configuration", AirPort is GREYED-OUT (i.e. not > selectable) in the list of choices. It only alllows me to choose Ethernet > or Other (I disconnected the Internal Modem, hoping that would help, but it > didn't make any difference one way or the other). > > I don't know what you mean by "deleting" it, since it's not on the list. > I've tried TWO different cards, both of which the seller says have been > tested. I've seated them, re-seated them, rebooted, pressed the CUDA button, repaired disk permissions, everything I can think of. > I think I see the problem. This is a software issue. The problem is likely that the 802.11 kext isn't loading. > Startup by doing a Safe Boot holding the shift key which will force a > rebuilding of the kext cache, hopefully getting the 802.11 kexts to load.

> If the kexts load, you should be able to open System Preferences > Network

- > and it will automatically offer to add the new device port "Airport". If
- > this does NOT happen, then it's likely the kext is still failing to load.
- > You can open Applications > Utilities > Terminal and use the command
- > "kextstat" to so the list of loaded kexts. Within this list you'll be
- > looking for "IO80211Family" and "AirPortBrcm43xx". If they aren't loaded,
- > this is still the problem. At this point, it's probably simplest to
- > "refresh" your System software by reinstalling the 10.5.8 Combo Update,
- > which will give you a fresh, up-to-date copy of the latest updated
- > software. If the card isn't recognized in System Preferences > Network,
- > then you've got a more serious problem, perhaps a hardware issue?

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Subject: Re: G5 won't recognise Airport Express card Posted by P.M. Stefan on Mon, 16 Feb 2015 10:19:51 GMT View Forum Message <> Reply to Message

Just a thought.

Did you recheck the connection of the Airport Extreme card inside your G5?

--

RosaKiana Bailey

and Barnum at the bridge Whidbey Island

On Sun, Dec 21, 2014 at 2:32 PM, 'mythmaker18' via G-Group < g3-5-list@googlegroups.com> wrote:

> Kris:

- > Thanks for the advice. After various family health issues (and deaths)
- > since Thanksgiving, I only got around to giving this a try today.

>

- > As you suspected, those KEXTs are NOT installed. Unfortunately, none of
- > the steps you suggested managed to install any of them. Even after running
- > the 10.5.8 updater again, Airport still isn't able to be 'picked', and
- > running the Terminal again, I can confirm the KEXTs still weren't installed
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- > I don't guess you have any more ideas? Or do you think there's some
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> Andy

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Subject: Re: G5 won't recognise Airport Express card Posted by peterhaas on Mon, 16 Feb 2015 17:43:42 GMT

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> Did you recheck the connection of the Airport Extreme card inside your G5?

The kexts for Airport (or competitive 802.11 networking) support all reside as plug-ins in:

/System/Library/Extensions/IO80211Family.kext

In 10.9, these plug-ins are:

AirPortAtheros40 (handles the Atheros-based AirPort cards)

AirPortBrcm4331 (handles most Broadcom-based AirPort cards)

AirPortBrcm4360 (handles some Broadcom-based AirPort cards)

AppleAirPortBrcm43224 (handles the remainder Broadcom-based AirPort cards)

IO80211NetBooter

Within each of those are plists which identify the supported cards.

Often, all that is required is determining the PRECISE identity of a card (using Apple's IORegistryExplorer tool), and then adding it to the related kext, first by copying an existing plist, and second by changing that copy to reflect the identity of the new card.

As but one example, the Apple-supplied Atheros WiFi cards are all 002a, whereas the generic Atheros WiFi cards are all 002b.

Simply copying the plist for an 002a card, and changing it to 002b will automagically add support for a generic 002b card as if it was an Apple-supplied 002a card.

The very same concept applies to Broadcom cards.

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