

Forum:[Hack Forums](#)

Thread: [Is it worth changing thermal pads on 3090 cards and lose warranty?](#)

Roberto Scorpius Malfoy - November 2, 2021, 4:09 pm

Hi guys, I recently bought 36 3090 cards and I am thinking of replacing the thermal pads with better ones to reduce the heat on my VRAM, however, if I change the thermal pads I will lose the warranty, do you guys think it's worth doing it and lose the warranty?

shreder - November 2, 2021, 4:15 pm

I'll say this... I had a riser fuck up my GPU once boy was I glad i had warranty.

Roberto Scorpius Malfoy - November 2, 2021, 4:16 pm

(Nov 2, 2021 04:15 PM)shreder Wrote: [\[CITE\]](#) I'll say this... I had a riser fugg up my GPU once boy was I glad i had warranty.

How did that happen?

shreder - November 2, 2021, 4:19 pm

(Nov 2, 2021 04:16 PM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) How did that happen?

shit riser probably shorted my GPU, I woke up one morning rig was off restarted it. And my GPU went POP, it was a bad riser. While not very likely the situation, I wouldn't risk it on a 3090 that's going to be running 24/7 and likely need every waking moment on and running for ROI.

weigh your risk to reward I guess. If changing the thermal pads can boost your ROI significantly then do it. If it's like 1% gains then meh.

Roberto Scorpius Malfoy - November 2, 2021, 4:37 pm

(Nov 2, 2021 04:19 PM)shreder Wrote: [\[CITE\]](#) shit riser probably shorted my GPU, I woke up one morning rig was off restarted it. And my GPU went POP, it was a bad riser. While not very likely the situation, I wouldn't risk it on a 3090 that's going to be running 24/7 and likely need every waking moment on and running for ROI.

weigh your risk to reward I guess. If changing the thermal pads can boost your ROI significantly then do it. If it's like 1% gains then meh.

Is there something I should think about if I change the thermal pads? Once I change it and it's running 24/7 what should I think of?

I mean I don't mind if something happens to the card after 1-2 year, I want to be able to mine at least something.

shreder - November 2, 2021, 4:44 pm

(Nov 2, 2021 04:37 PM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) Is there something I should think about if I change the thermal pads? Once I change it and it's running 24/7 what should I think of?

I mean I don't mind if something happens to the card after 1-2 year, I want to be able to mine at least something.

Why are you trying to change the thermal pads? Are you trying to increase the hash rate? I mean if it's worth it in terms of ROI do it.

Omniscient - November 2, 2021, 5:12 pm

IMHO whatever you do don't destroy your warranty. Cards go bad. Trust me you'll want that warranty. Isn't there other cooling solutions that won't break warranty?

SA777OSHI - November 2, 2021, 9:20 pm

Yes its common to replace the thermal pads on 3090s if you use them for mining, they can get very hot, some people also do that with 3080s.

BUT if you have never done maintenance to other electronics like for example a PS4 or something, then I dont recommend you to take apart a GPU, a GPU is not something you want to start with, I have taken apart many PS4s and Xbox and I thought it would be easy for me to replace thermal pads on a GPU, but it wasnt that easy, watch a youtube video on how to replace thermal pads with the exact brand and model of the ones you have and if you feel confident go ahead and do it, some models are harder to work with than others.

Blue Eye Samurai - November 3, 2021, 3:53 am

It's very common for RTX 30 series to replace thermal pads as the temperatures for mining are crazy. The VRAM can go up to 110 degrees celsius as explained in documentation but you really don't want to run that temperature for months straight, it's really bad for the cards.

I myself have a RTX 3080 that was using 110 degrees if I wanted to get around 100 MH/s. I replaced my thermal pads and it stays at a cool 85 degrees when it's ran 24/7. So yes, I would say it's better to avoid warranty. There's no point keeping it, if you manage to break it now, good luck getting a replacement since they are still pretty scarce.

Lyrice - November 3, 2021, 3:56 am

May I ask how expensive it was? That was a neat steal of 3090's :D

Which software do you use?

Roberto Scorpius Malfoy - November 3, 2021, 7:22 pm

(Nov 2, 2021 05:12 PM)Omniscient Wrote: [\[CITE\]](#) IMHO whatever you do don't destroy your warranty. Cards go bad. Trust me you'll want that warranty. Isn't there other cooling solutions that won't break warranty?

Too late, I already destroyed the warranty on 15 of the cards and changed the thermal pads, unfortunately, I still have the issue with high temperature, I am gonna buy some heatsink made of copper and try to add it on the backplate and see if the heat gets reduced, the thing here is that it is very complicated whether it is worth to lose the warranty or not.

If you choose to not lose the warranty you will have to run the cards on a high temperature that means the card gets a lot of damage in the long end so lets say if the warranty is for 2 years and I run these cards for 2 years on high temp they might get destroyed after 2 years, while if I destroy the warranty and replace the thermal pads the card might live up to 5 years, however it is very scary to think that just one card can get lost directly that means 2700 EUR on trash can

(Nov 3, 2021 03:56 AM)moneyblog Wrote: [\[CITE\]](#) May I ask how expensive it was? That was a neat steal of 3090's :D

Which software do you use?

It cost me a lot of money to buy 36 3090 however I got an offer from the company I bought them from so I got a little bit discount.

(Nov 3, 2021 03:53 AM)The Queen's Gambit Wrote: [\[CITE\]](#) It's very common for RTX 30 series to replace thermal pads as the temperatures for mining are crazy. The VRAM can go up to 110

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Can you help me to reduce the heat on my vram? I replaced all thermal pads but only reduced the heat for 5-6celsius which is not good.

Is it not that effective because the fans are not on?

Maskin - November 3, 2021, 7:58 pm

I did some looking around and replacing thermal pads should help more than 5-6c... Looking online people get results from 15-25c reduction

PR1V473 - November 3, 2021, 8:14 pm

(Nov 2, 2021 04:09 PM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) Hi guys, I recently bought 36 3090 cards and I am thinking of replacing the thermal pads with better ones to reduce the heat on my VRAM, however, if I change the thermal pads I will lose the warranty, do you guys think it's worth doing it and lose the warranty?Where the fuck did you find 36 3090s? What price and brand?

Roberto Scorpius Malfoy - November 3, 2021, 8:53 pm

(Nov 3, 2021 08:14 PM)PR1V473 Wrote: [\[CITE\]](#) Where the fugg did you find 36 3090s? What price and brand?
2700 EUR each.

most of them tuf gaming and a few rog strix

Master024 - November 4, 2021, 4:34 am

What I do know is that the thickness of the thermal pads is very important. Make sure you don't screw something up. This may be the reason why the temperature is still not satisfactory.

Roberto Scorpius Malfoy - November 4, 2021, 9:39 am

(Nov 4, 2021 04:34 AM)Master024 Wrote: [\[CITE\]](#) What I do know is that the thickness of the thermal pads is very important. Make sure you don't screw something up. This may be the reason why the temperature is still not satisfactory.

I'm pretty sure that I added the correct thickness, I got the tuf 3090 card which has 1.5mm on everything inside and then a 2.00 as a long one in the corner.

Master024 - November 4, 2021, 9:43 am

(Nov 4, 2021 09:39 AM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) I'm pretty sure that I added the correct thickness, I got the tuf 3090 card which has 1.5mm on everything inside and then a 2.00 as a long one in the corner.

Did you set a power limit? I honestly had no contact with the RTX 3090, but I know that people often reduce the consumption and temperature of the graphics card in this way.

Roberto Scorpius Malfoy - November 4, 2021, 9:50 am

(Nov 4, 2021 09:43 AM)Master024 Wrote: [\[CITE\]](#) Did you set a power limit? I honestly had no contact with the RTX 3090, but I know that people often reduce the consumption and temperature of the graphics card in this way.

I did not set any power limit, however, I overclocked these cards and the rig fans were not one.

Master024 - November 4, 2021, 10:34 am

(Nov 4, 2021 09:50 AM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) I did not set any power limit, however, I overclocked these cards and the rig fans were not one.

I think that is the reason why you have a high temperature even after replacing the thermal drops. I don't know if your rig is on Windows or Linux, but you should definitely try to set a power limit until you notice a big drop in hashrate.

Roberto Scorpius Malfoy - November 4, 2021, 10:39 am

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Its on Windows, may I know what you mean with powerlimit?

Master024 - November 4, 2021, 10:45 am

(Nov 4, 2021 10:39 AM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) Its on Windows, may I know what you mean with powerlimit?

Downlaod MSI Afterburner and you will be able to change power limit on every GPU. By default all GPUs with similar graphics processor are synchronized, but you can disable sync in MSI Afterburner settings and then you can set a power limit for each card separately.

Start with bigger steps, say 5 percent. After you reach say 80% power limit, continue with lower steps.

Roberto Scorpius Malfoy - November 4, 2021, 10:49 am

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Okay, will the mgz go down if I add powerlimit?

Master024 - November 4, 2021, 10:53 am

(Nov 4, 2021 10:49 AM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) Okay, will the mgz go down if I add powerlimit?

It is very likely that your electricity bill will be reduced more than your rig would currently earn, if you get what I mean.

You will get better temps, lower consumption and similar hashrate.

You can find results of other people on Google, then decide if it's worth it. I think it is.

Blue Eye Samurai - November 4, 2021, 10:54 am

(Nov 3, 2021 07:22 PM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) Too late, I already destroyed the warranty on 15 of the cards and changed the thermal pads, unfortunately, I still have the issue with high temperature, I am gonna buy some heatsink made of copper and try to add it on the backplate and see if the heat gets reduced, the thing here is that it is very complicated whether it is wort to lose the warranty or not.

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Can you help me to reduce the heat on my vram? I replaced all thermal pads but only reduced the heat for 5-6celsius which is not good.

Is it not that effective because the fans are not on?
What thermal pads did you get, dont invest in shitty brands.

Semmenial - November 4, 2021, 11:15 am

Correct me if I'm wrong, but I think using the cards for mining in general will void the warranty.

Av?!?r - November 4, 2021, 12:39 pm

If you had to return a card, they might be able to determine that you used it for mining based on how "used" it was and how long ago you bought it. In that case, you might as well do anything to it to increase performance. I know there's a few Gamers Nexus vids where they do teardowns of various 30-series cards you can look at, too.

shreder - November 4, 2021, 1:17 pm

(Nov 4, 2021 12:39 PM)Av?!?r Wrote: [\[CITE\]](#) If you had to return a card, they might be able to determine that you used it for mining based on how "used" it was and how long ago you bought it. In that case, you might as well do anything to it to increase performance. I know there's a few Gamers Nexus vids where they do teardowns of various 30-series cards you can look at, too.

I returned a mining card before not an issue.

PR1V473 - November 4, 2021, 3:31 pm

(Nov 3, 2021 08:53 PM)Roberto Scorpius Malfoy Wrote: [\[CITE\]](#) 2700 EUR each.

most of them tuf gaming and a few rog strix
What city in Europe u live in? Can I come and buy some off u?