

## Report - ARKTEK RTX 3060 12GB

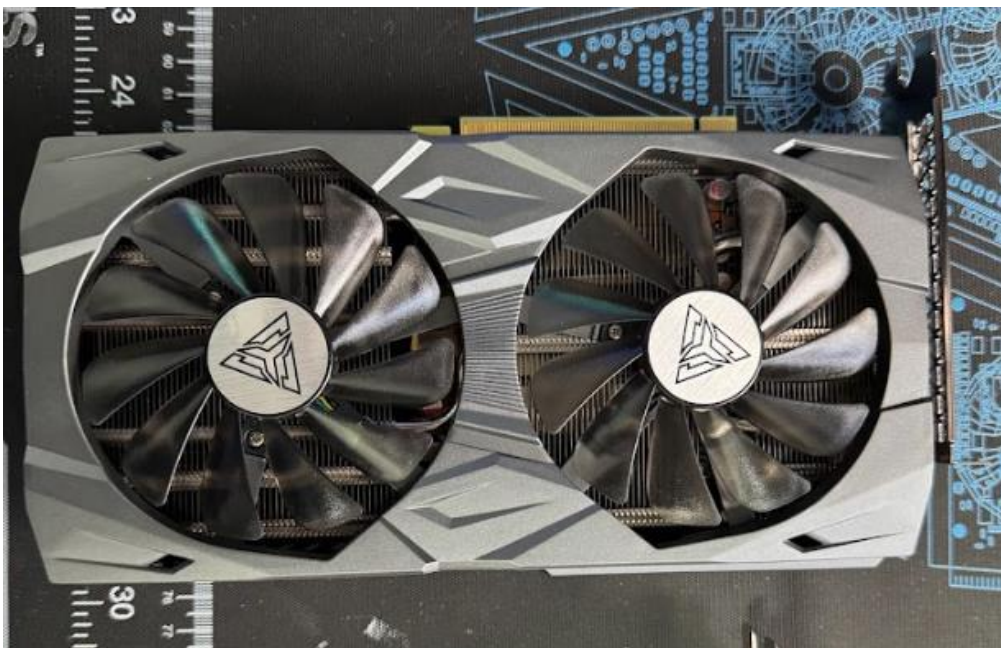
### Box and Accessories:

The packaging is similar to standard graphics card boxes, featuring a compartment with shaped foam to ensure safe transport.



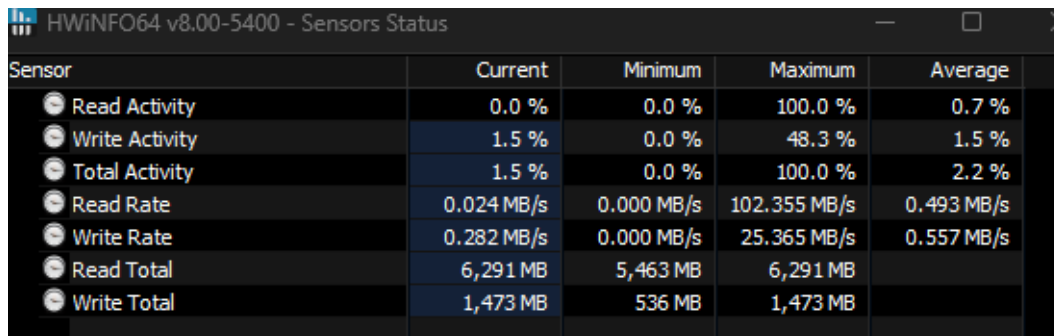
### First Impressions:

The ARKTEK RTX 3060 12GB is a visually striking dual-fan, dual-slot card. One of the immediate standout features is the inclusion of LED fans, which provide aesthetic appeal.

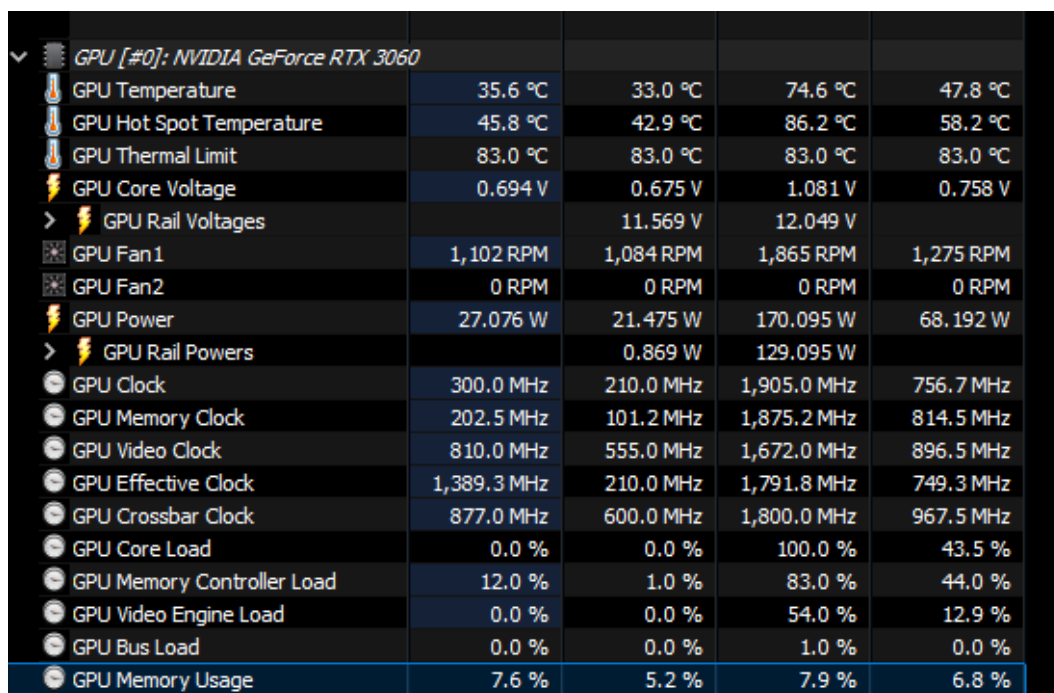


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Using Furmark to stress the card, we recorded a peak temperature of 74.6°C with an 86.2°C Hotspot. These figures suggest that the cooling solution is within the spec. After a few hours of stress testing, the card idled at 35°C with a hotspot temperature of 45°C, which is good for idle.



Sensor	Current	Minimum	Maximum	Average
Read Activity	0.0 %	0.0 %	100.0 %	0.7 %
Write Activity	1.5 %	0.0 %	48.3 %	1.5 %
Total Activity	1.5 %	0.0 %	100.0 %	2.2 %
Read Rate	0.024 MB/s	0.000 MB/s	102.355 MB/s	0.493 MB/s
Write Rate	0.282 MB/s	0.000 MB/s	25.365 MB/s	0.557 MB/s
Read Total	6,291 MB	5,463 MB	6,291 MB	
Write Total	1,473 MB	536 MB	1,473 MB	

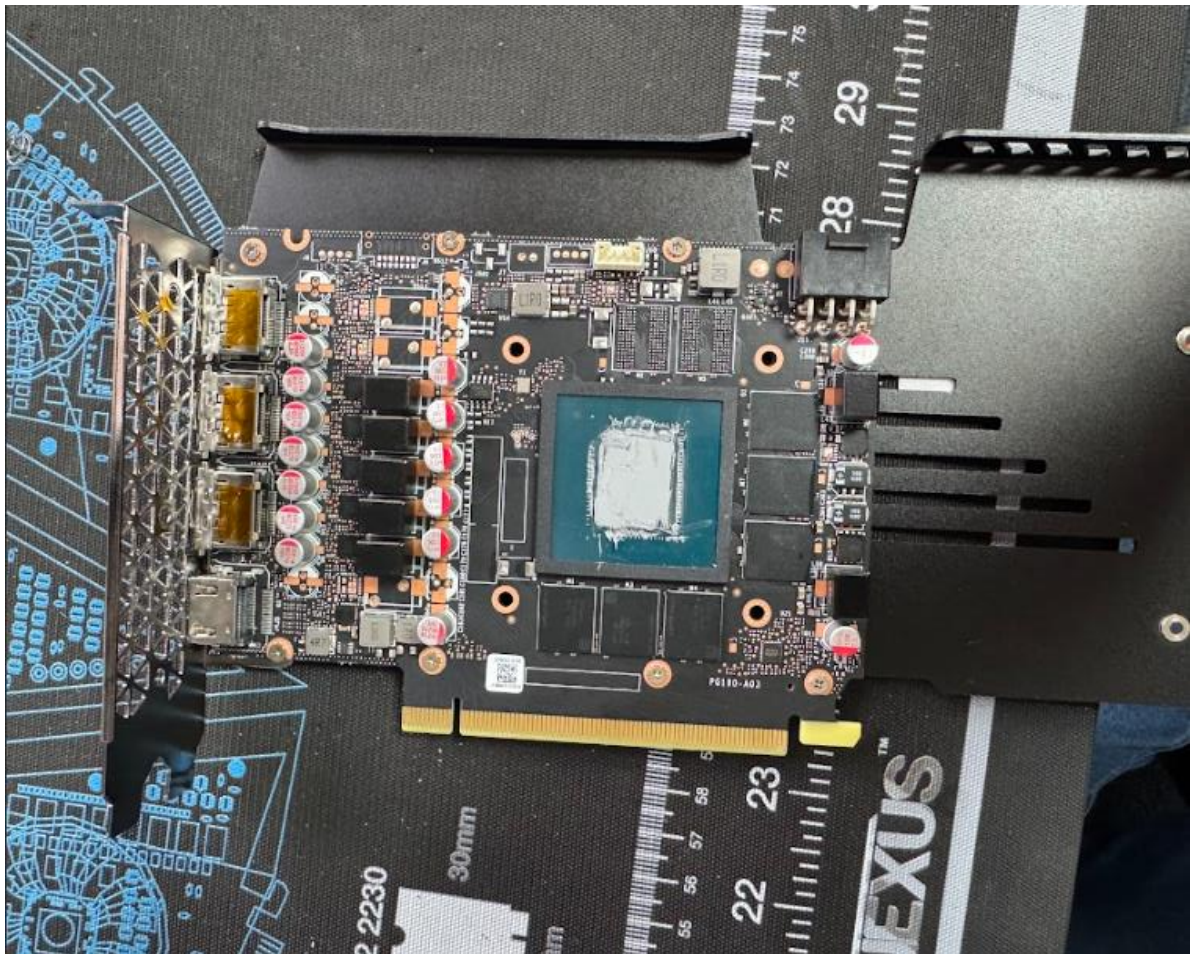
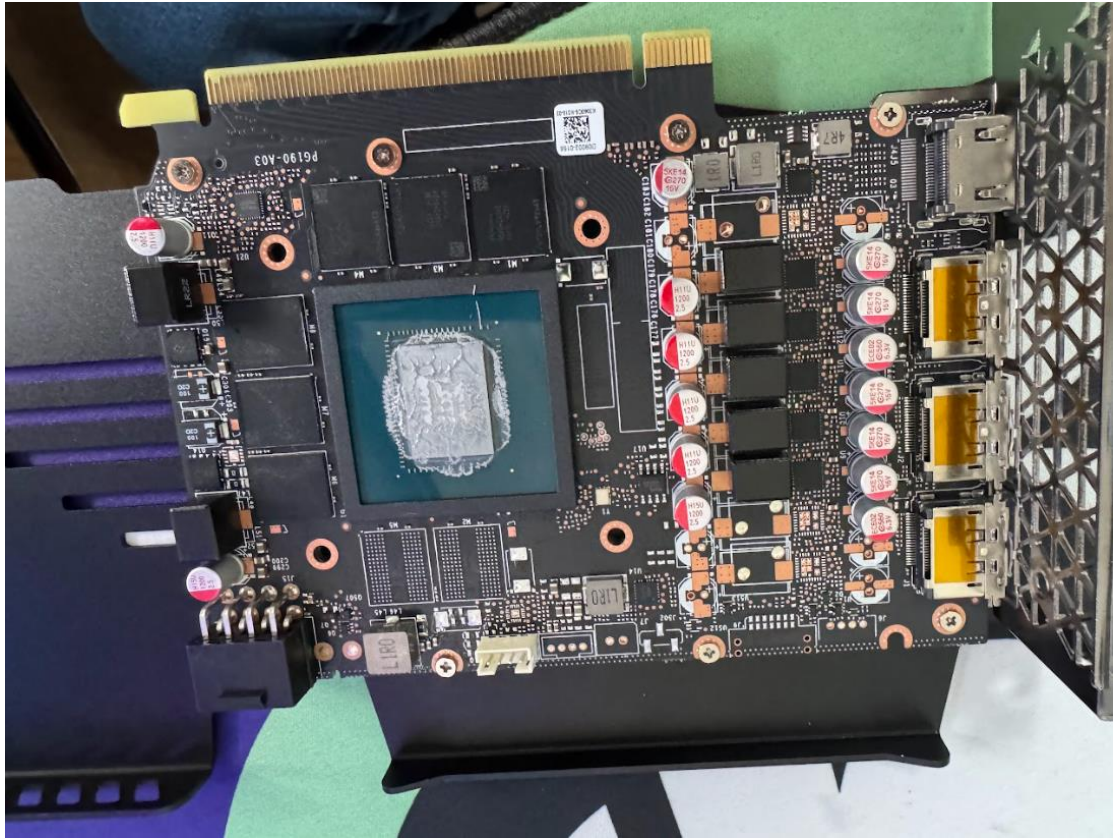


Sensor	Current	Minimum	Maximum	Average
<b>GPU [#0]: NVIDIA GeForce RTX 3060</b>				
GPU Temperature	35.6 °C	33.0 °C	74.6 °C	47.8 °C
GPU Hot Spot Temperature	45.8 °C	42.9 °C	86.2 °C	58.2 °C
GPU Thermal Limit	83.0 °C	83.0 °C	83.0 °C	83.0 °C
GPU Core Voltage	0.694 V	0.675 V	1.081 V	0.758 V
GPU Rail Voltages		11.569 V	12.049 V	
GPU Fan1	1,102 RPM	1,084 RPM	1,865 RPM	1,275 RPM
GPU Fan2	0 RPM	0 RPM	0 RPM	0 RPM
GPU Power	27.076 W	21.475 W	170.095 W	68.192 W
GPU Rail Powers		0.869 W	129.095 W	
GPU Clock	300.0 MHz	210.0 MHz	1,905.0 MHz	756.7 MHz
GPU Memory Clock	202.5 MHz	101.2 MHz	1,875.2 MHz	814.5 MHz
GPU Video Clock	810.0 MHz	555.0 MHz	1,672.0 MHz	896.5 MHz
GPU Effective Clock	1,389.3 MHz	210.0 MHz	1,791.8 MHz	749.3 MHz
GPU Crossbar Clock	877.0 MHz	600.0 MHz	1,800.0 MHz	967.5 MHz
GPU Core Load	0.0 %	0.0 %	100.0 %	43.5 %
GPU Memory Controller Load	12.0 %	1.0 %	83.0 %	44.0 %
GPU Video Engine Load	0.0 %	0.0 %	54.0 %	12.9 %
GPU Bus Load	0.0 %	0.0 %	1.0 %	0.0 %
GPU Memory Usage	7.6 %	5.2 %	7.9 %	6.8 %

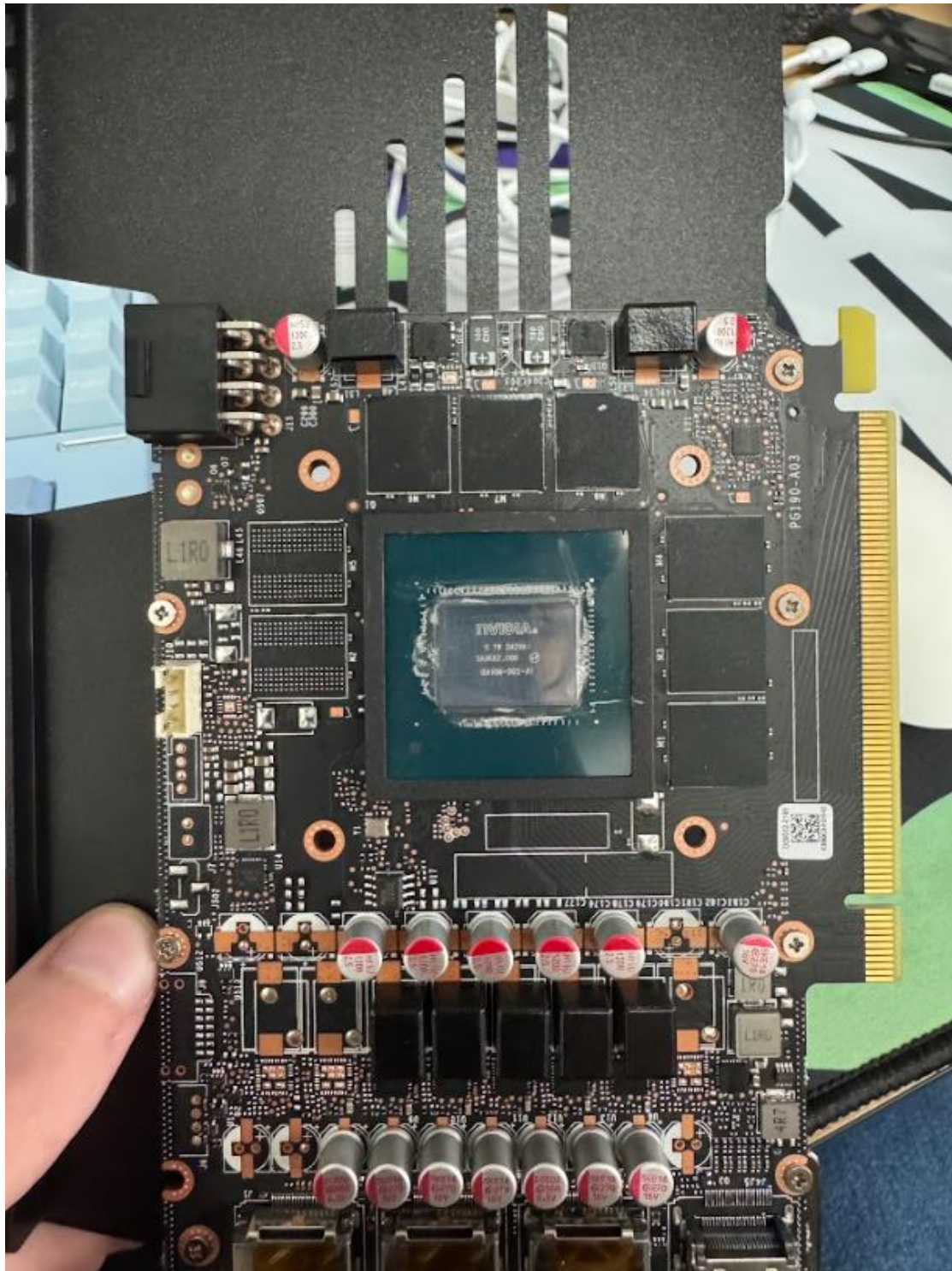
### Card Tear-down:

We performed a full teardown to examine the internal build quality. The PCB design is based on the EVGA RTX 3060, known for its reliability and solid engineering.

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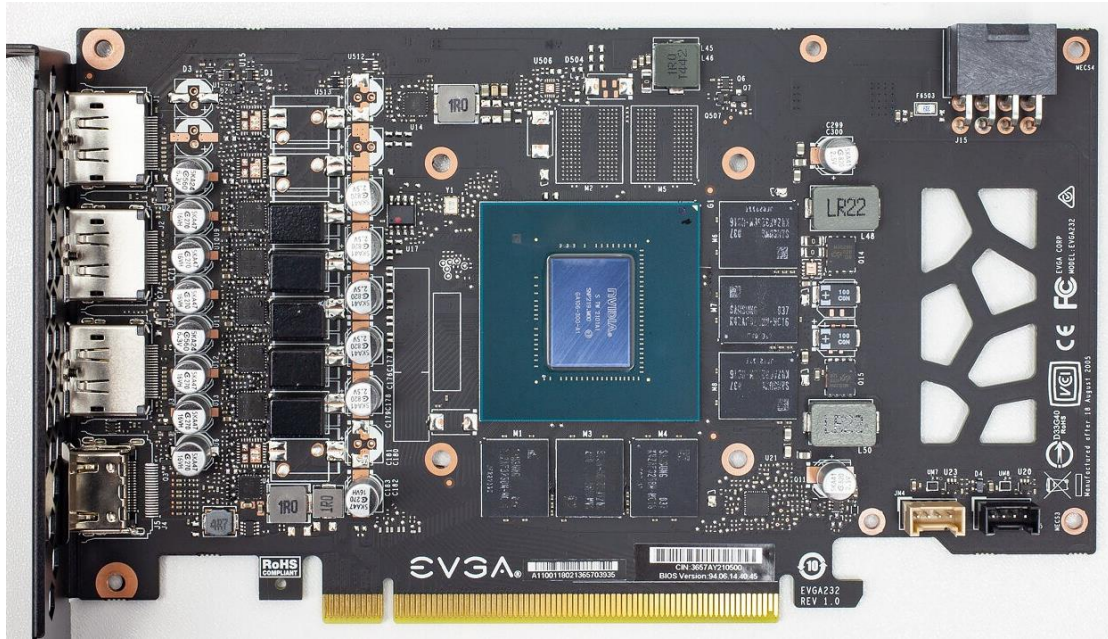


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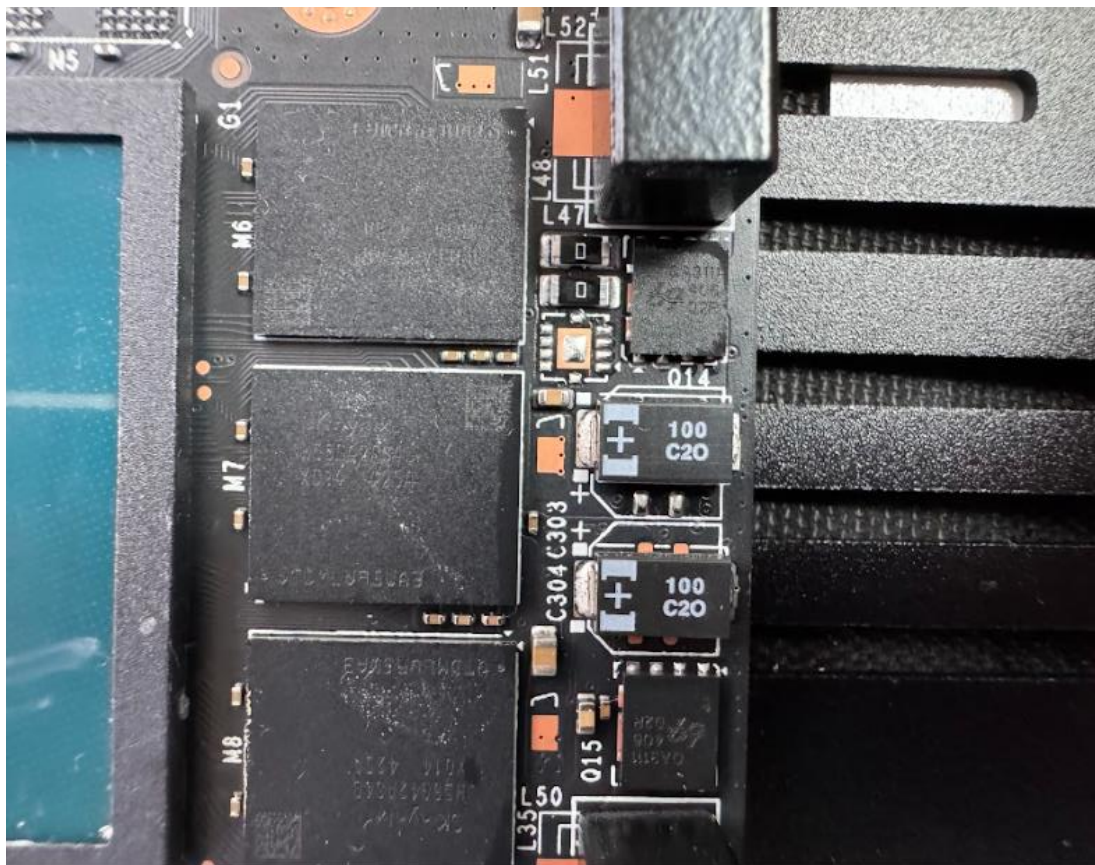


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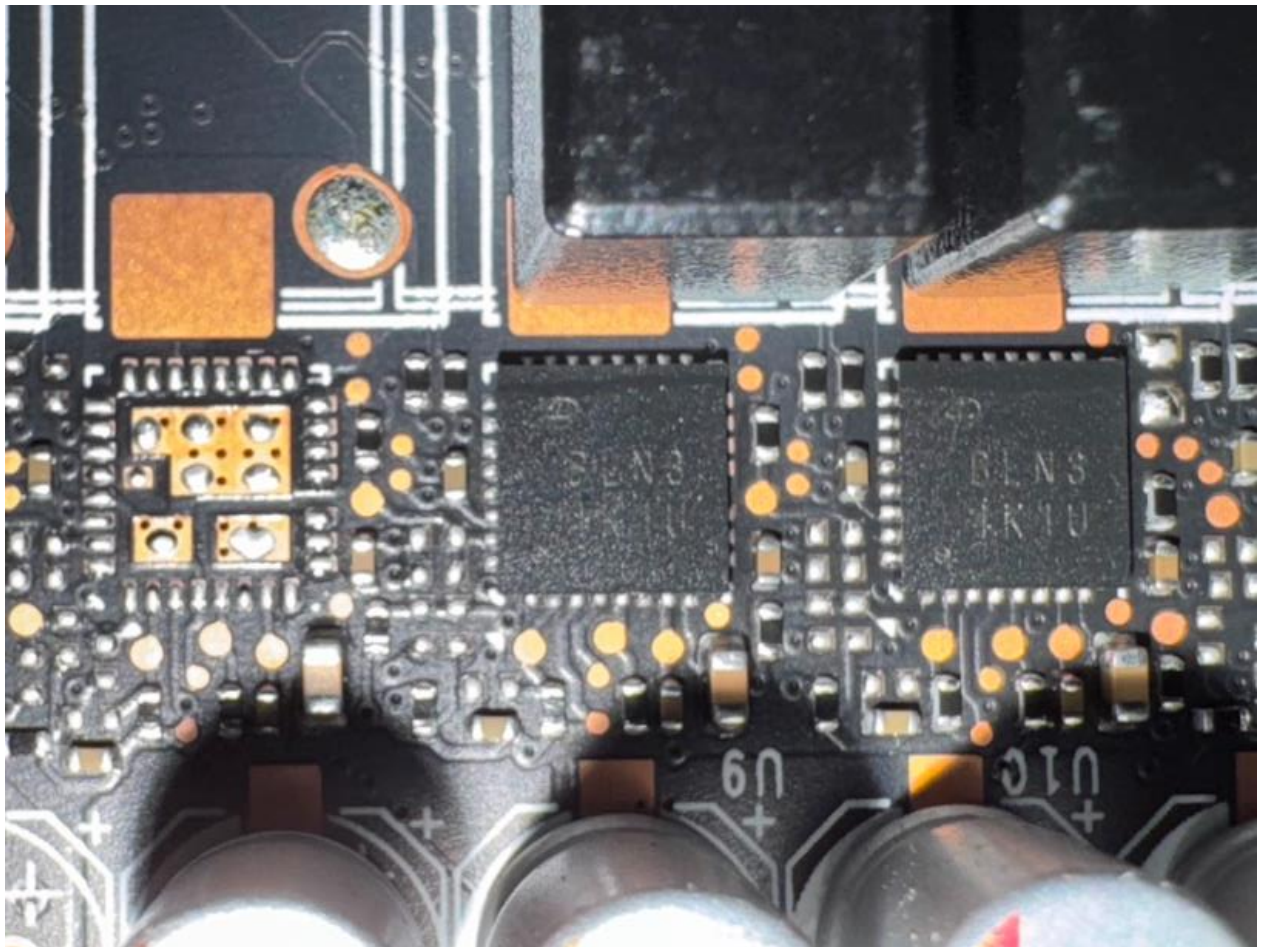
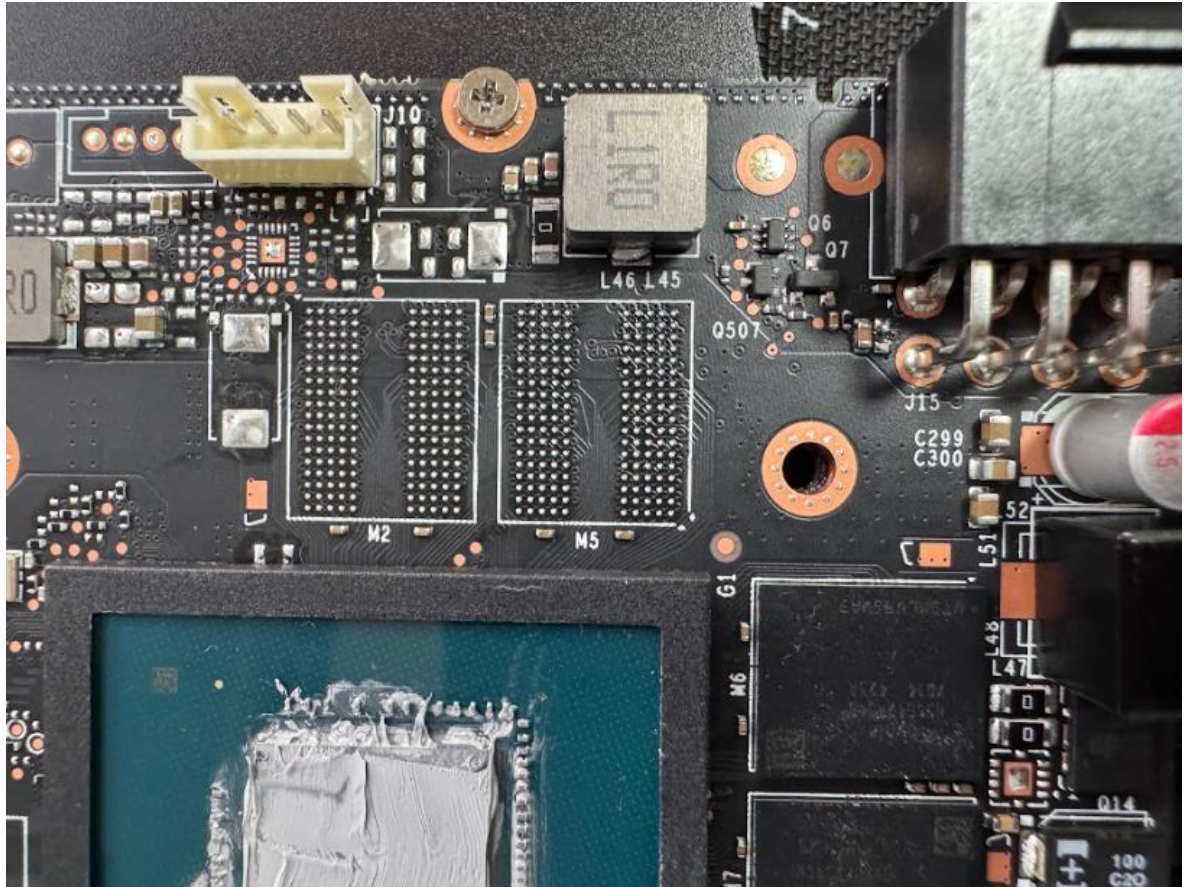
### EVGA PCB



Upon inspecting the GPU, we confirmed that it was manufactured in mid-July 2024, which is consistent with a fresh production batch. There are no indications of refurbished components in this unit. The color of the GPU substrate is normal, and there are no signs of prior soldering or rework, confirming that the card is new and has not been through refurbishing processes. This assures buyers that the GPU used in this model is from a recent production run.



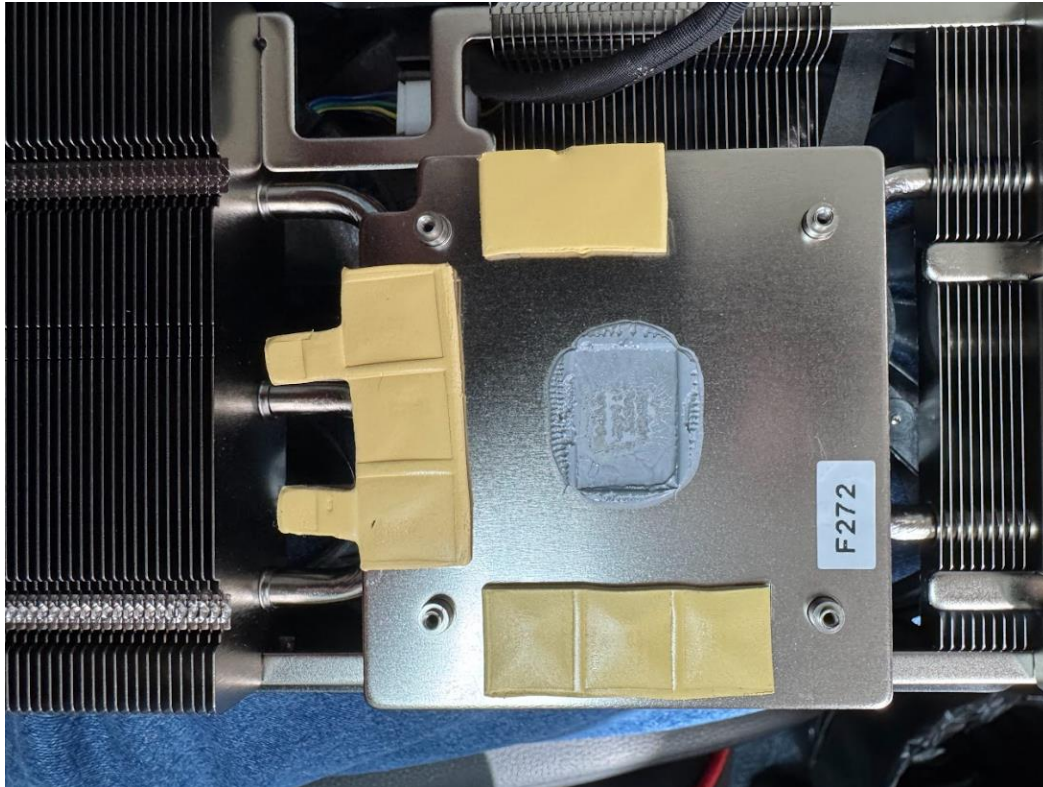
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### Heatsink:

The heatsink design is generally effective, featuring five heat pipes and a cold plate that cools the GPU and the six Samsung memory modules.



### Backplate:

Features a backplate for structural integrity and cooler pass-through.



## **Report - ARKTEK RTX 3060 12GB**

### **Conclusion:**

The ARKTEK RTX 3060 12GB offers appealing aesthetics with its LED fans and strong PCB foundation. This model could become a more competitive option in the mid-tier market.