



# SYSTEM TEST REPORT

## AV600-RH-A45



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# 1. SPECIFICATION

## 1-1. SYSTEM CONFIGURATION

<b>Motherboard</b>	COM Express Type 6 carrier board & COM Express CPU module MXM Type 3.1 Support NVIDIA® GTX® / RTX® GPU PCI/104 Express Expansion Slot for Modular Open Structure Multi-Expansion Slots include Dual Mini PCIe Express Slots, 1x M.2 Slot Wide Range DC 9V~36V Input Extreme Temperature Support -40°C to 85°C
<b>CPU</b>	Intel® Core™ i7-13800HRE Processor Total Cores: 14 # of Performance-cores: 6 # of Efficient-cores: 8 Total Threads: 20 Max Turbo Frequency: 5.00 GHz Performance-core Max Turbo Frequency: 5.00 GHz Efficient-core Max Turbo Frequency: 4.00 GHz Processor Base Frequency: 2.50 GHz Cache 24 MB Intel® Smart Cache TDP: 45 W
<b>Memory</b>	2* 8GB DDR5
<b>Storage</b>	1* M.2 512GB SSD 1* M.2 4TB SSD 1* 2.5" SATA 4TB SSD
<b>GPU</b>	NVIDIA RTX A4500 Embedded GPU BIOS Version: 94.04.99.00.50 CUDA parallel-processing cores: 5888 CUDA® cores GPU base/boost clock: 510 MHz / 1215 MHz Max Power Consumption: 80 W
<b>Power Module</b>	SK711 DC18V ~ DC36V

## 2. TEST PLAN

### 2-1. THERMAL MEASUREMENT PROCESS

Test Purpose	<p>The purpose of performing thermal profile testing is to identify potential thermal issues with the EUT. Considering that semiconductor failure rates rise rapidly with increasing junction temperature, it can aid product reliability assessment.</p> <p>As the system cools down, the mode will change with stack selection, temperature/heat.</p> <p>Mapping can help develop the best tracking arrangements.</p>
Test Equipment	1. KSON THS-B4T-150 Chamber.
Quantity Tested	Minimum 1 Set
Test Software	<p>1. Stress CPU: PassMark Burn-in Test Software Ver 9.0</p> <p>2. Stress GPU: AIDA64 extreme590</p> <p>3. LAN Speed Test: iPerf3</p>
Test Procedure	<p>1. Thermal pre-scan measurement:          Temperature: <b>-40°C~60°C</b>          Humidity: <b>85%RH (Temperature above 25°C)</b></p> <p>2. Actual thermal measurement:</p> <p>2-1. Select the test point based on the infrared photo and connect the thermocouple to the hot spot.</p> <p>2-2. Place the EUT into the hot chamber and set the test temperature curve Specification.</p> <p>2-3. Open the hot cell and power up the EUT, enter the Windows 10 Pro environment and perform a maximum power test + stress application.</p> <p>2-4. After the EUT executes the test software for 8 hours, record the maximum heat generation of each thermocouple point.</p> <p>2-5. Turn off the hot cell and EUT.</p> <p>2-6. Verify and check that the recorded information for each component complies with the operating temperature range listed in the specification/approval sheet for each component being tested.</p>
Test Diagram of Curves	<p>Environment defines for 60 hours.</p>

## 2-2. Test Result <Test Item>

### 2-2-1. TEMPERATURE CYCLE

# Aging test of various parts at different temperatures under maximum load and full load conditions.

Test Temperature	Test Result
-40°C	PASS
-20°C	PASS
0°C	PASS
25°C / 85%RH	PASS
40°C / 85%RH	PASS
50°C / 85%RH	PASS
60°C / 85%RH	PASS

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#### 2-2-2. I/O FUNCTION

#Confirm the system specifications and I/O connection to ensure that they are functioning properly

Item	Test and Check Criteria	Result
<b>X1 - USB</b> (USB 3.0)	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	<b>PASS</b>
<b>X2 - Mini DP</b>	Check work well. (Max Resolution: 1920 x 1080)	<b>PASS</b>
<b>X3 - LAN</b> (1Gbps)	Connection 1G/2.5G/10G/100G SWITCH HUB transfer data test, it can work normally.	<b>PASS</b>
<b>X4 - LAN</b> (1Gbps)	Connection 1G/2.5G/10G/100G SWITCH HUB transfer data test, it can work normally.	<b>PASS</b>

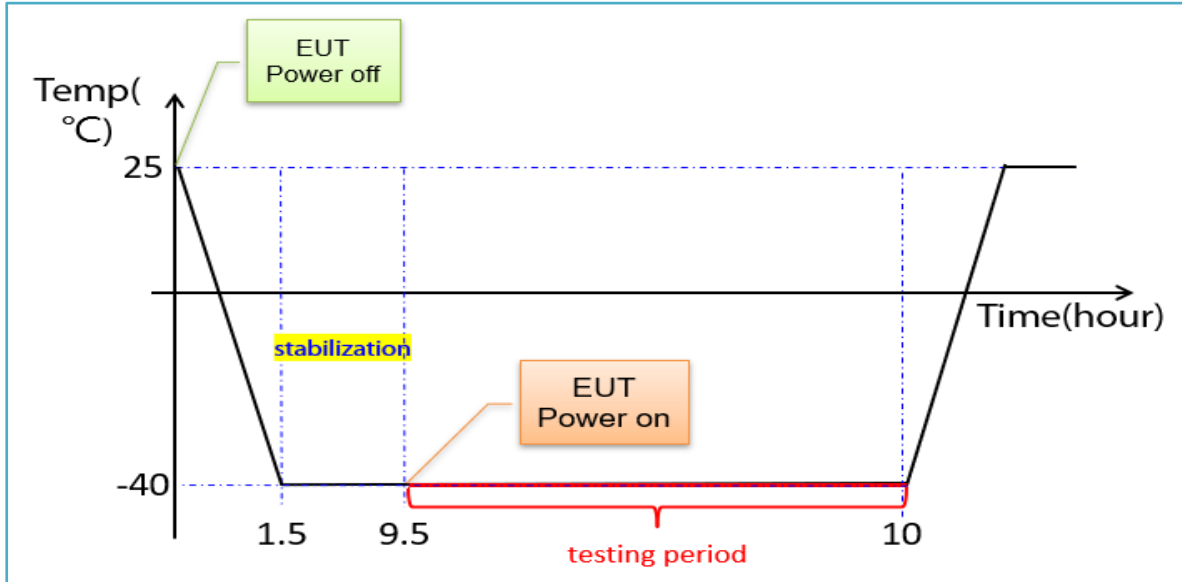
# System Test Report

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### 2-2-3. LOW-TEMPERATURE & BOOT-UP

#Power supply under -40°C and ensure that the system boot up properly

Ambient Temp.	Test Result
-40°C	<b>PASS</b>



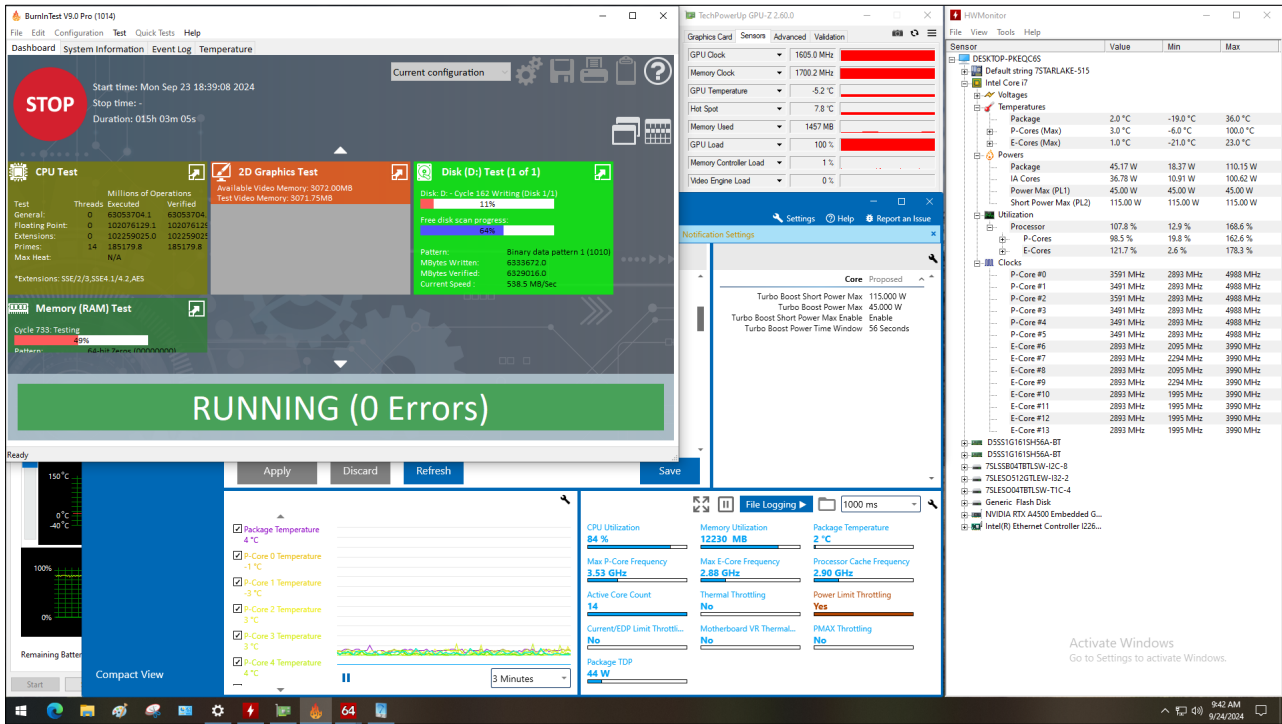


# System Test Report

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### 3. TEST PHOTO IN LAB

#### - Chamber in -40°C





# System Test Report

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### - Chamber in -20°C

The screenshot displays a Windows desktop with several monitoring applications. The primary application is 'BurnInTest V9.0 Pro (1014)', which shows a 'STOP' button and a 'RUNNING (0 Errors)' status. It includes sections for CPU Test, 2D Graphics Test, Disk (D:) Test, and Memory (RAM) Test. Other visible windows include 'TechPowerUp GPU-Z 2.2.6.0' showing GPU specifications, 'HWMonitor' displaying sensor data for Intel Core i7, and 'HWMonitor' showing detailed system metrics like CPU utilization (85%), memory usage (12204 MB), and various temperatures. The taskbar at the bottom shows the system clock as 6:11 PM on 9/24/2024.



# System Test Report

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### - Chamber in 0°C

The screenshot displays a Windows desktop with several monitoring and testing applications running. The primary application is **BumInTest V9.0 Pro (1014)**, which shows a 'STOP' button and a 'RUNNING (0 Errors)' status. It includes tests for CPU, 2D Graphics, Disk, and Memory (RAM). Other visible windows include **TechPowerUp GPU-Z 2.60.0** showing GPU specifications, and **HWMonitor** displaying a detailed list of hardware sensors and their current values.

Sensor	Value	Min	Max
Package	43.0 °C	-19.0 °C	53.0 °C
P-Cores (Max)	44.0 °C	-6.0 °C	100.0 °C
E-Cores (Max)	44.0 °C	-21.0 °C	48.0 °C
Power	45.02 W	18.37 W	110.15 W
IA Core	36.47 W	10.91 W	100.62 W
Power Max (PL1)	45.00 W	45.00 W	45.00 W
Short Power Max (PL2)	115.00 W	115.00 W	115.00 W
Processor	120.7 %	12.9 %	168.6 %
P-Cores	107.0 %	19.8 %	162.6 %
E-Cores	141.3 %	2.6 %	178.3 %



# System Test Report

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- Chamber in 25°C / 85%RH

The screenshot displays a system test interface with the following components:

- Test Status:** A large red "STOP" button and a green "RUNNING (0 Errors)" banner.
- CPU Test:** Shows millions of operations completed and various performance metrics.
- 2D Graphics Test:** Displays available and tested video memory.
- Disk (D:) Test:** Shows disk cycle progress and free space.
- Memory (RAM) Test:** Shows cycle progress and memory usage.
- Temperature Monitoring:** A graph showing package and core temperatures for 5 cores, with values ranging from 66°C to 73°C.
- System Information:** Includes CPU utilization (82%), memory usage (12.163 MB), and package temperature (73.1°C).
- GPU Settings:** A window showing GPU clock (1515.0 MHz), memory clock (1700.2 MHz), and other parameters.
- HWMonitor:** A detailed sensor monitoring window showing temperatures, voltages, powers, and utilization for various components.





# System Test Report

## AV600-RH-A45

### - Chamber in 40°C / 85%RH

The screenshot displays a Windows desktop with several monitoring and testing applications running. The primary application is 'BurnInTest V9.0 Pro (1014)', which shows a 'STOP' button and a large green banner indicating 'RUNNING (0 Errors)'. The interface includes sections for 'CPU Test', '2D Graphics Test', 'Disk (D:) Test (1 of 1)', and 'Memory (RAM) Test'. A 'TechPowerUp GPU-Z 2.6.0.0' window is open, showing GPU specifications like 'GPU Clock' at 1500.0 MHz and 'GPU Temperature' at 84.2 °C. An 'HWMonitor' window displays a detailed list of system sensors, including temperatures for various components (Package, IA Cores, PowerMax) and utilization metrics for the processor and clocks. The taskbar at the bottom shows the system clock at 9:22 AM on 9/26/2024.



# System Test Report

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### - Chamber in 50°C / 85%RH

The screenshot displays a comprehensive system monitoring interface. The main window shows a 'STOP' status with a duration of 08h 06m 32s. Below this, several test modules are visible: CPU Test, 2D Graphics Test, and Disk (D:) Test (1 of 1). A large green banner at the bottom of the main window indicates 'RUNNING (0 Errors)'. To the right, a 'TechPowerUp GPU-Z 2.60.0' window shows GPU specifications, including a clock speed of 1470.0 MHz and a temperature of 85.1°C. Further right, an 'HWMonitor' window provides a detailed overview of system sensors, including temperatures for various components and power usage. At the bottom, a 'Compact View' window shows real-time graphs for package and core temperatures, along with system metrics like CPU utilization (85%), memory usage (11949 MB), and power consumption (45 W).



# System Test Report

## AV600-RH-A45

### - Chamber in 60°C / 85%RH

The screenshot displays a Windows desktop environment with several monitoring applications running. The primary application is 'RunInTest V9.0 Pro (1014)', which shows a 'STOP' button and a 'RUNNING (0 Errors)' status. It includes sections for CPU Test, 2D Graphics Test, Disk (D:) Test, and Memory (RAM) Test. A secondary window, 'TechPowerUp GPU-Z 2.80.0', shows GPU specifications: GPU Clock at 1275.0 MHz, Memory Clock at 1700.2 MHz, GPU Temperature at 86.3°C, Hot Spot at 98.9°C, Memory Used at 959 MB, GPU Load at 99%, and Memory Controller Load at 2%. A third window, 'HWMonitor', displays a detailed list of sensors including temperatures (Package, P-Cores, E-Cores), powers (Package, IA Cores, Power Max), and utilization (Processor, P-Cores, E-Cores) for an Intel Core i7 processor. A fourth window shows a 'Compact View' of system metrics like CPU Utilization (85%), Memory Utilization (11801 MB), Package Temperature (100°C), Max P-Core Frequency (2.70 GHz), Active Core Count (14), Current/EDP Limit Throttling (No), Package TDP (42 W), and various throttling settings.





# System Test Report

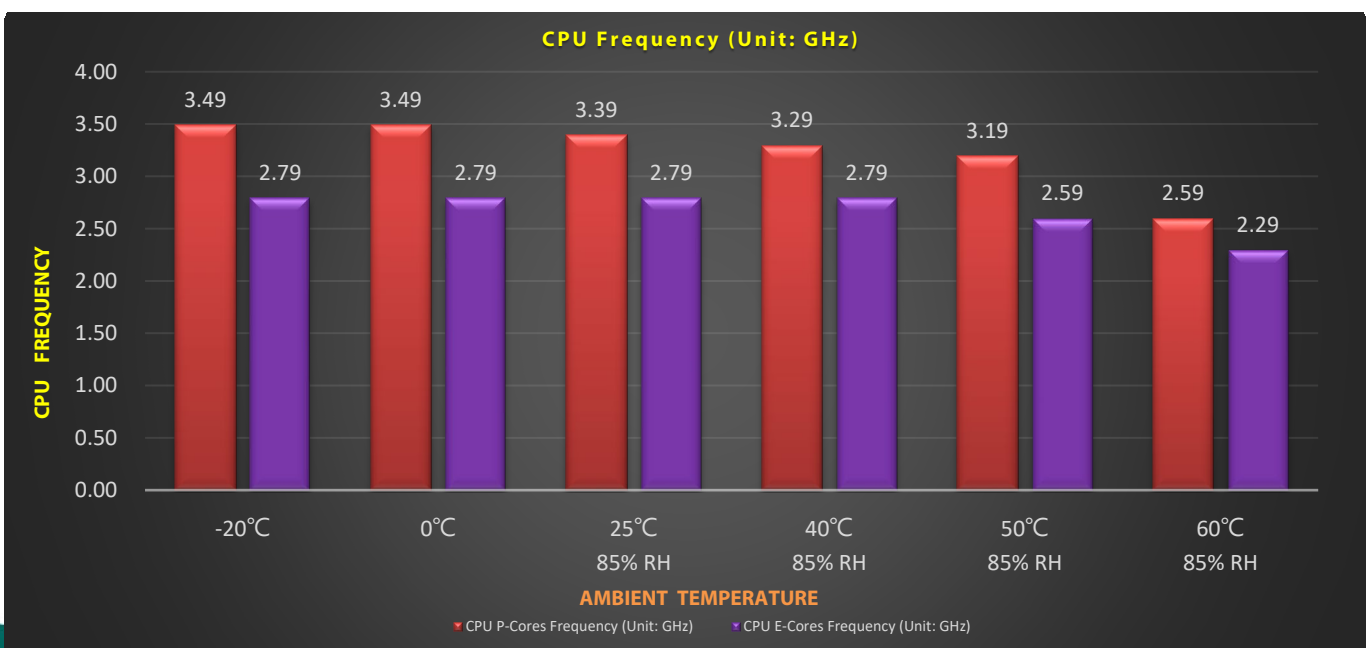
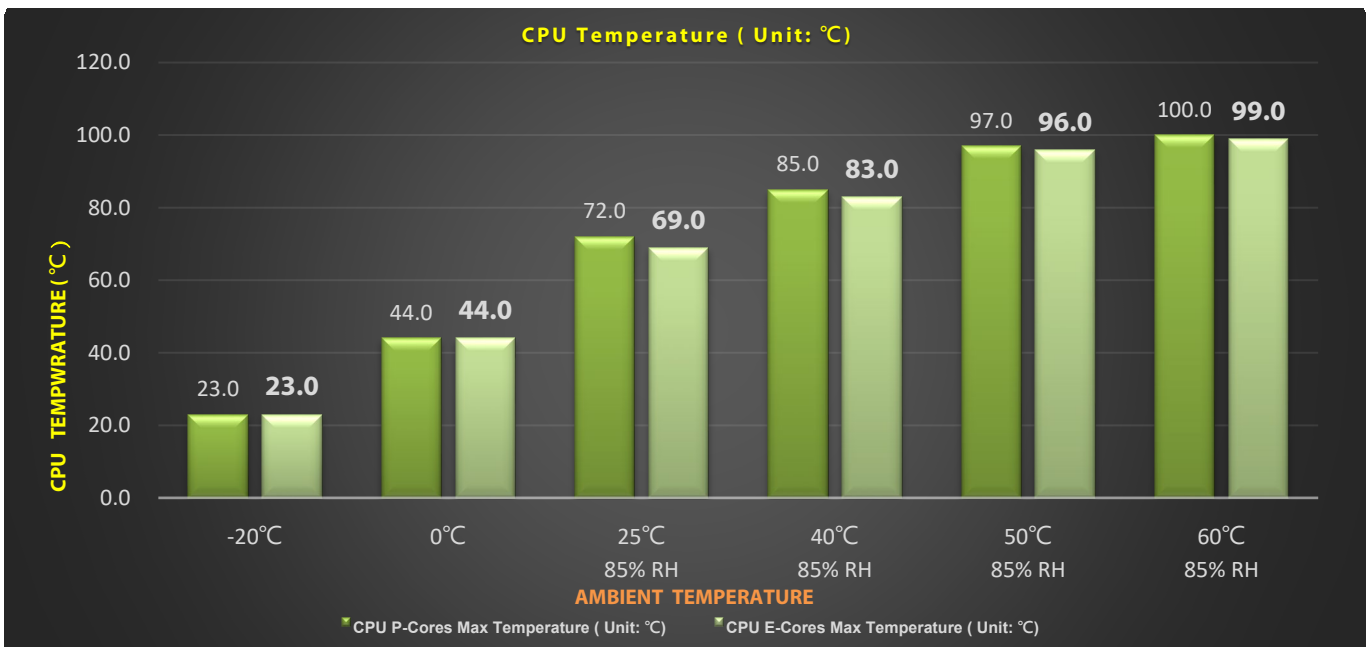
## AV600-RH-A45

### 4. THERMAL TEST RESULT(-40°C ~ +60°C)

**CPU: i7-13800HRE TDP:40W**  
**GPU A4500 TDP:80W**

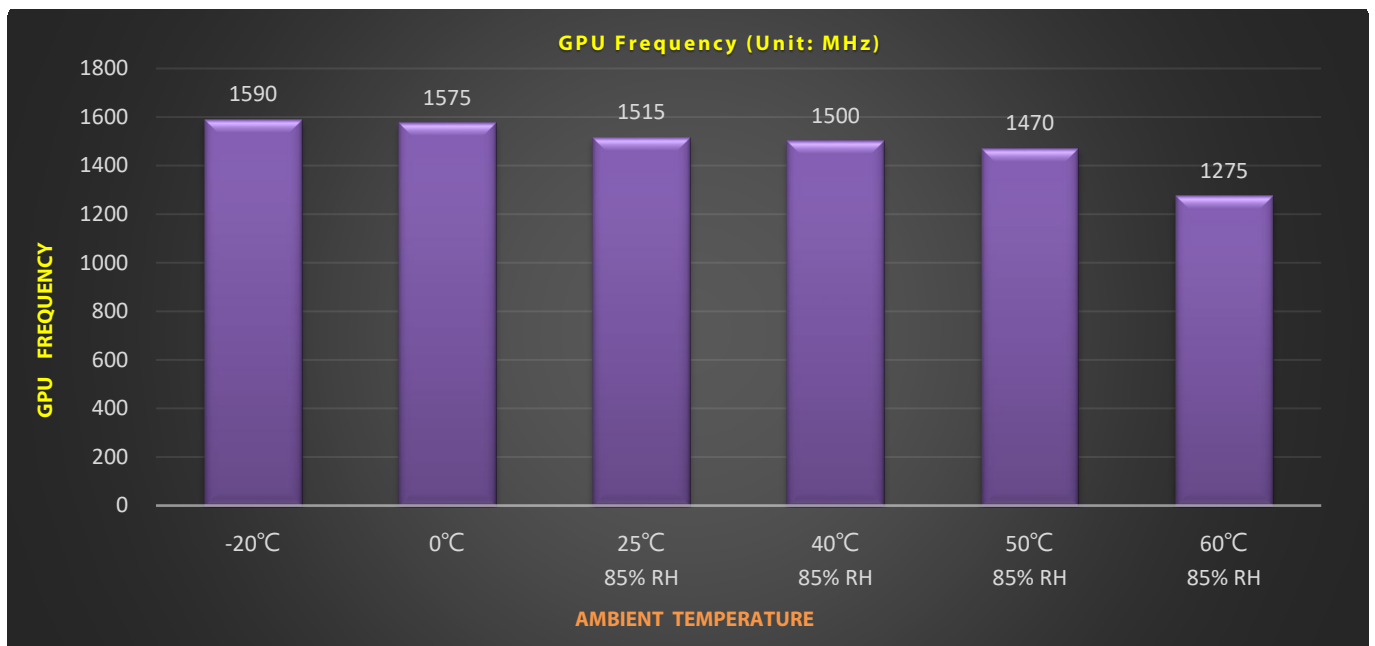
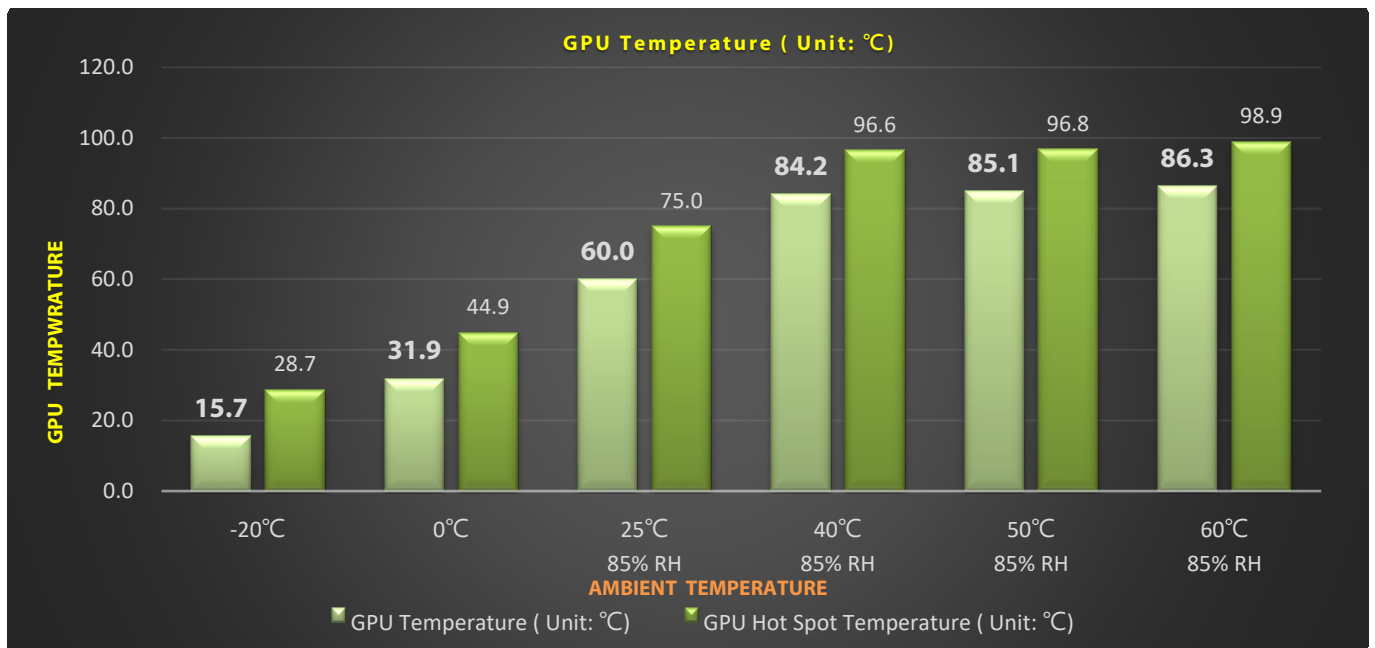
**CPU & GPU Temperature and Frequency**

Temperature / Frequency	Ambient Temp.	-40°C	-20°C	0°C	25°C 85% RH	40°C 85% RH	50°C 85% RH	60°C 85% RH
CPU P-Cores Max Temperature ( Unit: °C)		3.0	23.0	44.0	72.0	85.0	97.0	100.0
CPU E-Cores Max Temperature ( Unit: °C)		1.0	23.0	44.0	69.0	83.0	96.0	99.0
CPU P-Cores Frequency (Unit: GHz) <small>Processor Base Frequency: 2.50 GHz</small>		3.59	3.49	3.49	3.39	3.29	3.19	2.59
CPU E-Cores Frequency (Unit: GHz)		2.89	2.79	2.79	2.79	2.79	2.59	2.29
GPU Temperature ( Unit: °C)		-5.2	15.7	31.9	60.0	84.2	85.1	86.3
GPU Hot Spot Temperature ( Unit: °C)		7.8	28.7	44.9	75.0	96.6	96.8	98.9
GPU Frequency (Unit: MHz) <small>GPU base clock: 510 MHz</small>		1605	1590	1575	1515	1500	1470	1275



# System Test Report

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## 5. I/O FUNCTION TEST

### 5-1. USB 3.0



PassMark(TM) USB3Test

Select USB Device:

Device: PMU33ZQ2CX (SuperSpeed 5Gb/s)

Connection Type: SuperSpeed 5Gb/s

Test mode:

Loopback

Benchmark

**Results** *Status: BENCHMARK test - Complete*

*Duration: 006h 00m 00s Operations: 0 Errors: 0*

Read block 30023: 3372.1 Mb/s (421.5 MB/s)	
Write block 30023: 2949.2 Mb/s (368.6 MB/s)	
Read block 30024: 3372.1 Mb/s (421.5 MB/s)	
Write block 30024: 2956.1 Mb/s (369.5 MB/s)	
Read block 30025: 3370.3 Mb/s (421.3 MB/s)	
Write block 30025: 2963.4 Mb/s (370.4 MB/s)	
Read block 30026: 3368.8 Mb/s (421.1 MB/s)	
Write block 30026: 2959.8 Mb/s (370.0 MB/s)	
<b>OVERALL BENCHMARK RESULT:</b>	
Test Start time:	
Duration: 006h 00m 00s	
Total number of bytes written: 3828315 MB	
Total number of bytes read: 3828315 MB	
Maximum Write Data Rate: 3350.0 Mb/s (418.7 MB/s)	
Maximum Read Data Rate: 3373.6 Mb/s (421.7 MB/s)	
Minimum Write Data Rate: 2943.6 Mb/s (368.0 MB/s)	
Minimum Read Data Rate: 3366.0 Mb/s (420.7 MB/s)	
Average Write Data Rate: 3167.8 Mb/s (396.0 MB/s)	
Average Read Data Rate: 3372.2 Mb/s (421.5 MB/s)	
Average Data Rate: 3266.8 Mb/s (408.3 MB/s)	
Minimum Data Rate: 2943.6 Mb/s (368.0 MB/s)	

Max. Rate 3373

0 (Mb/s) R/W

Voltage 4.92V  
Speed 5Gb/s

Duration 360 Minutes

Start Stop

Configure Flash LEDs

Clear Serial Save Log

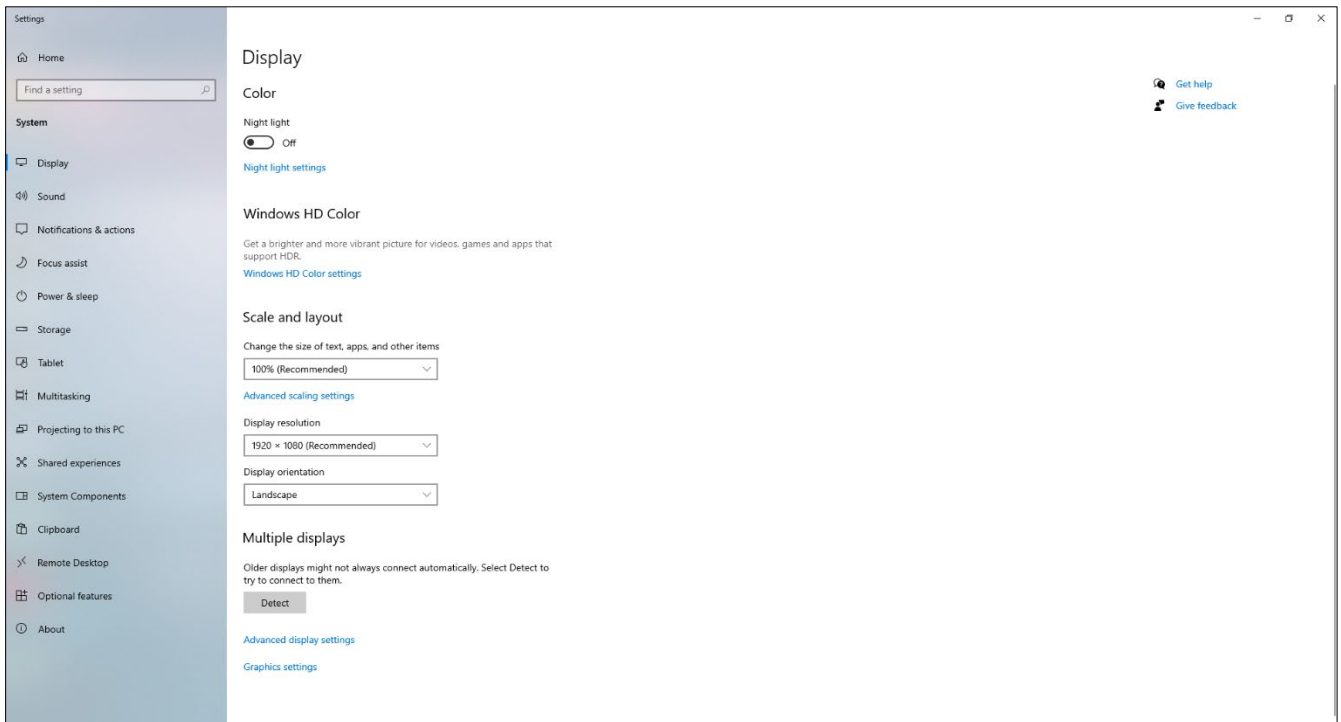
Reset All Help

About Exit

# System Test Report

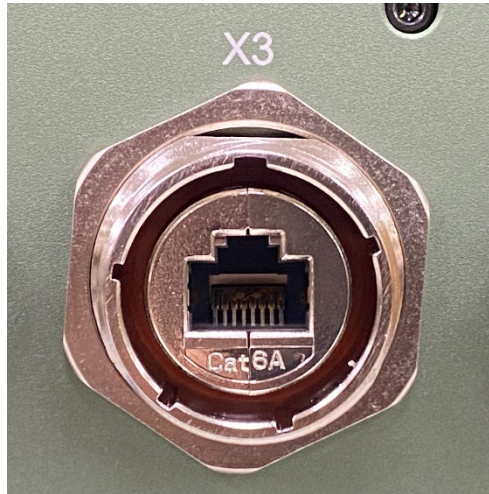
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### 5-2. Mini DP





### 5-3. LAN



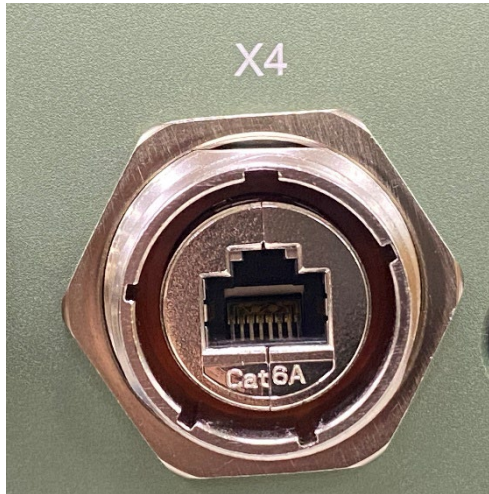
## LAN Speed Test

```
Administrator: Command Prompt
[ 5] 5957.00-5958.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5958.00-5959.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5959.00-5960.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5960.00-5961.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5961.00-5962.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5962.00-5963.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5963.00-5964.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5964.00-5965.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5965.00-5966.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5966.00-5967.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5967.00-5968.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5968.00-5969.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5969.00-5970.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5970.00-5971.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5971.00-5972.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5972.00-5973.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5973.00-5974.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5974.00-5975.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5975.00-5976.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5976.00-5977.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5977.00-5978.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5978.00-5979.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5979.00-5980.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5980.00-5981.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5981.00-5982.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5982.00-5983.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5983.00-5984.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5984.00-5985.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5985.00-5986.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5986.00-5987.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5987.00-5988.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5988.00-5989.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5989.00-5990.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5990.00-5991.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5991.00-5992.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5992.00-5993.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5993.00-5994.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5994.00-5995.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5995.00-5996.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5996.00-5997.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5997.00-5998.00 sec 282 MBytes 2.37 Gbits/sec
[ 5] 5998.00-5999.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5999.00-6000.00 sec 282 MBytes 2.37 Gbits/sec
-----
[ ID] Interval           Transfer     Bitrate
[ 5] 0.00-6000.00 sec 1.62 TBytes 2.37 Gbits/sec
[ 5] 0.00-6000.24 sec 1.62 TBytes 2.37 Gbits/sec
sender
receiver
iperf Done.
C:\>
```





## 5-4. LAN



## LAN Speed Test

```
Administrator: Command Prompt
[ 5] 5957.00-5958.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5958.00-5959.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5959.00-5960.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5960.00-5961.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5961.00-5962.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5962.00-5963.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5963.00-5964.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5964.00-5965.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5965.00-5966.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5966.00-5967.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5967.00-5968.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5968.00-5969.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5969.00-5970.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5970.00-5971.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5971.00-5972.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5972.00-5973.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5973.00-5974.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5974.00-5975.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5975.00-5976.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5976.00-5977.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5977.00-5978.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5978.00-5979.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5979.00-5980.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5980.00-5981.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5981.00-5982.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5982.00-5983.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5983.00-5984.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5984.00-5985.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5985.00-5986.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5986.00-5987.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5987.00-5988.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5988.00-5989.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5989.00-5990.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5990.00-5991.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5991.00-5992.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5992.00-5993.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5993.00-5994.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5994.00-5995.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5995.00-5996.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5996.00-5997.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5997.00-5998.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5998.00-5999.00 sec 283 MBytes 2.37 Gbits/sec
[ 5] 5999.00-6000.00 sec 283 MBytes 2.37 Gbits/sec
-----
[ ID] Interval          Transfer      Bitrate
[ 5] 0.00-6000.00 sec 1.62 TBytes 2.37 Gbits/sec
[ 5] 0.00-6000.23 sec 1.62 TBytes 2.37 Gbits/sec
sender
receiver
iperf Done.
C:\>
```



## 6. COSMETIC INSPECTION

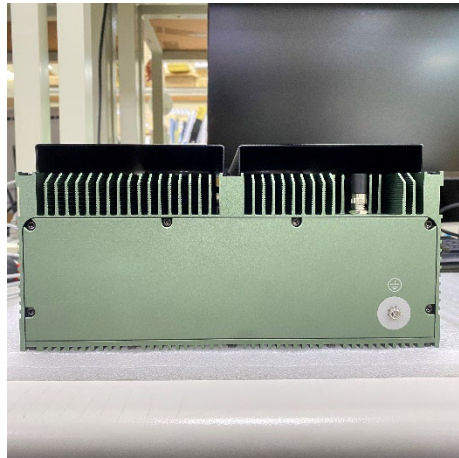
No.	Result			Inspection items	Remark
	OK	NG	NA		
1	✓			Whether there are Scratch mark on the appearance?	
2	✓			Whether the cutting edge is oxidized in appearance?	
3	✓			Whether there are impact scars on the appearance?	
4	✓			Whether there is any burr on the exterior?	
5	✓			Whether there is a deformation in the appearance?	
6	✓			Is there any dirt or glue residue on the outside?	
7	✓			Is the baking paint peeling or spilled on the appearance?	
8	✓			Is the version of the nameplate correct and not skewed or warped?	
9	✓			Is the serial number version sticker affixed and is the version correct?	
10	✓			HDD CAGE/TRAY trial installation and actual configuration to confirm whether there is interference?	

### Cosmetic Inspection Photo

**FRONT SIDE**



**BACK SIDE**



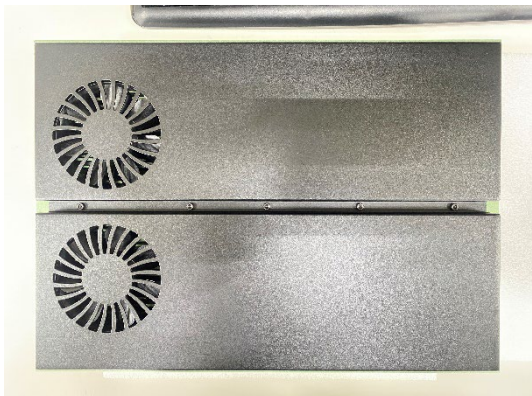
**LEFT SIDE**



**RIGHT SIDE**



**TOP SIDE**



**BOTTOM SIDE**

