



Performance Test Report

SR200-X4-A2



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Performance Test

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1. SPECIFICATION

1-1. SYSTEM CONFIGURATION

Motherboard	OXY5741A Chipset: CM246 BIOS Version: 5.13 SMBIOS Version: 3.2
CPU	Intel® Xeon® E-2276ML Processor Total Cores: 6 Total Threads: 12 Max Turbo Frequency: 4.20 GHz Intel® Turbo Boost Technology 2.0 Frequency: 4.20 GHz Processor Base Frequency: 2.00 GHz Cache: 12 MB TDP 25 W
Memory	SAMSUNG M471A4G43AB1-CWE 32GB SO-DIMM
Storage	M.2 2280 4TB SSD
GPU	NVIDIA RTX A2000 Embedded GPU BIOS Version: 94.07.63.00.A2 Driver Version: 31.0.15.2895(NVIDIA 528.95) DCH / WIN64 CUDA Parallel-Processing Cores: 2560 CUDA® cores GPU Base/Boost Clock: 607 MHz / 1117 MHz

1-2. PRODUCT INTERIOR PHOTOS



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. As the system cools down, the mode will change with stack selection, temperature/heat. Mapping can help develop the best tracking arrangements.</p>
Test Equipment	<p>1. KSON THS-B4T-150 Chamber.</p>
Quantity Tested	<p>Minimum 1 Set</p>
Test Software	<p>1. Stress CPU: PassMark BurnInTest Professional 9.0 build 1014 2. Stress GPU: AIDA64_extreme590 3. LAN Speed: iPerf3 4. USB Test: PassMark USB 3.0 Loop Back Plug</p>
Test Procedure	<p>1. Thermal pre-scan measurement: Temperature: -40°C ~60°C Humidity: 85%RH</p> <p>2. Actual thermal measurement: 2-1. Select the test point based on the infrared photo and connect the thermocouple to the hot spot. 2-2. Place the EUT into the hot chamber and set the test temperature curve Specification. 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. 2-4. After the EUT executes the test software for 8 hours, record the maximum heat generation of each thermocouple point. 2-5. Turn off the hot cell and EUT. 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> <p>3. For the Operating system software compatibility testing: 3-1. open the thermal chamber and power on the device under test. Enter the Ubuntu 24.02 LTS environment and perform the maximum power test and stress test.</p>
Test Diagram of Curves	<p>Environment defines for 60 hours.</p>

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2-2. TEST RESULT

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 Criteria	Result
LAN Port (1Gbps)	Connecting to a LAN switch/hub for data transmission test works properly.	PASS
LAN Port (1Gbps)	Connecting to a LAN switch/hub for data transmission test works properly.	PASS
COM Port (RS232)	The two devices RS232 are connected to each other, and the data transmission test shows no loss, functioning properly.	PASS
USB 3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
USB 3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
USB 3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
USB 3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
Display Port	Check work well. (4K Resolution: 3,840 x 2,160)	PASS
Display Port	Check work well. (4K Resolution: 3,840 x 2,160)	PASS
Display Port	Check work well. (4K Resolution: 3,840 x 2,160)	PASS
Display Port	Check work well. (4K Resolution: 3,840 x 2,160)	PASS
Mic-in	Connect the microphone and check if it is receiving sound properly.	PASS
Line-Out	Connect external speakers and ensure that music is outputting correctly.	PASS

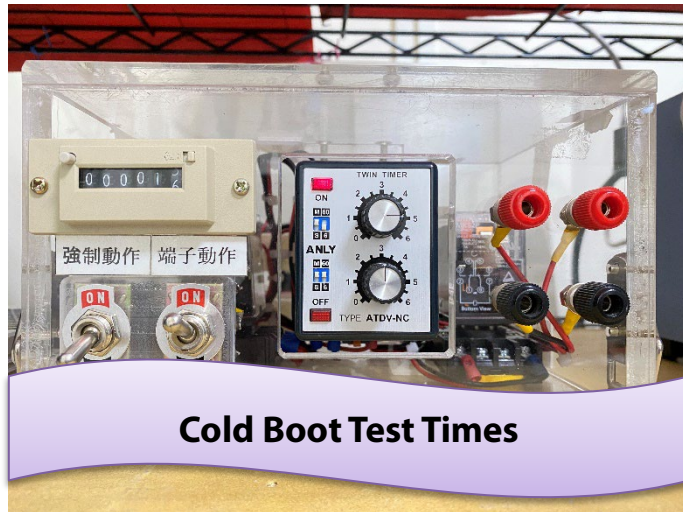
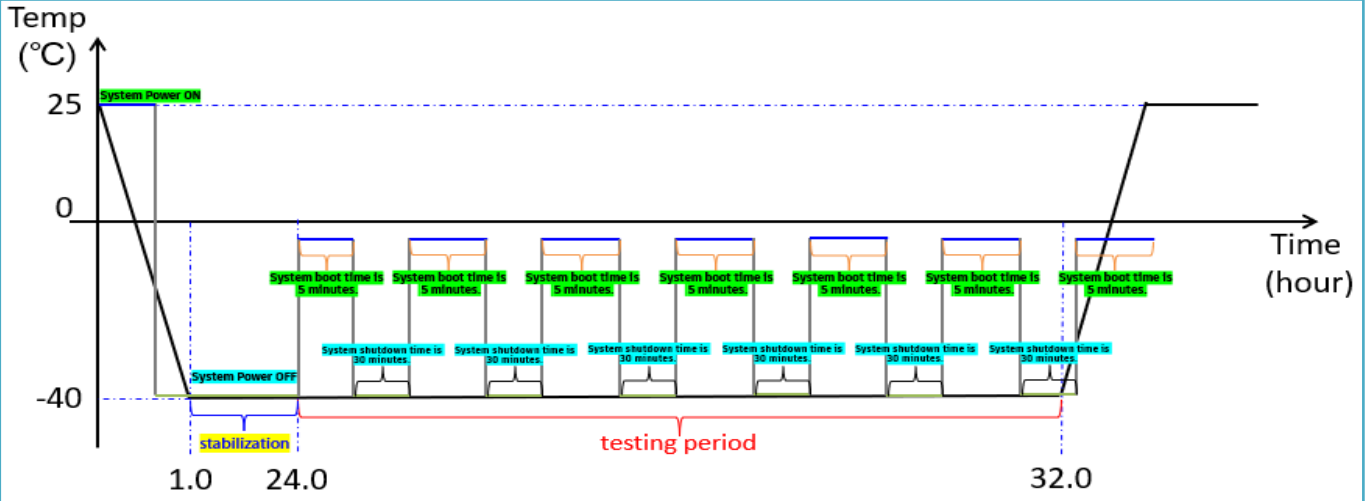
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2-2-3. Low-temperature & Boot-up

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

Ambient Temp.	Cold Boot Test Times	Test Result
-40°C	15 times	PASS

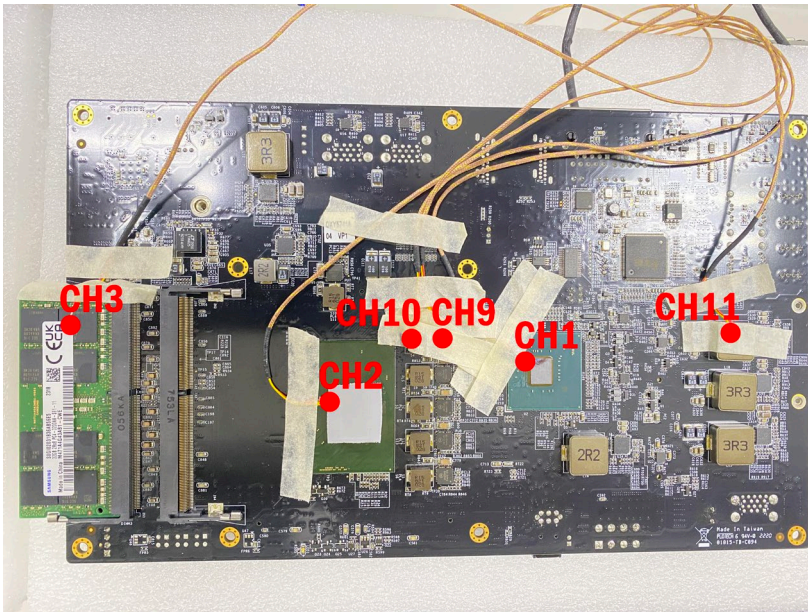


Performance Test

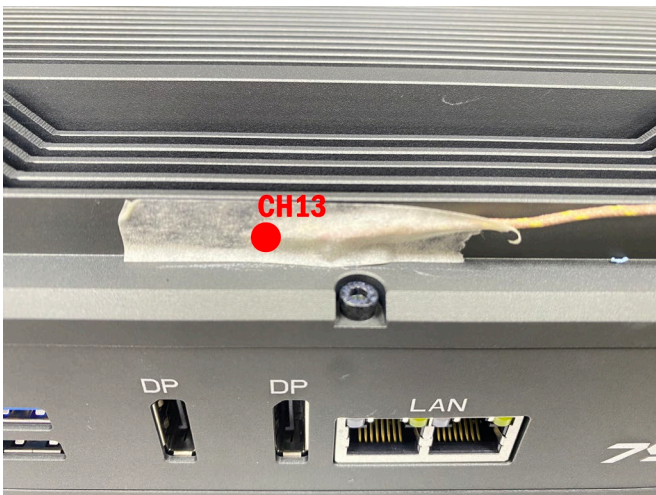
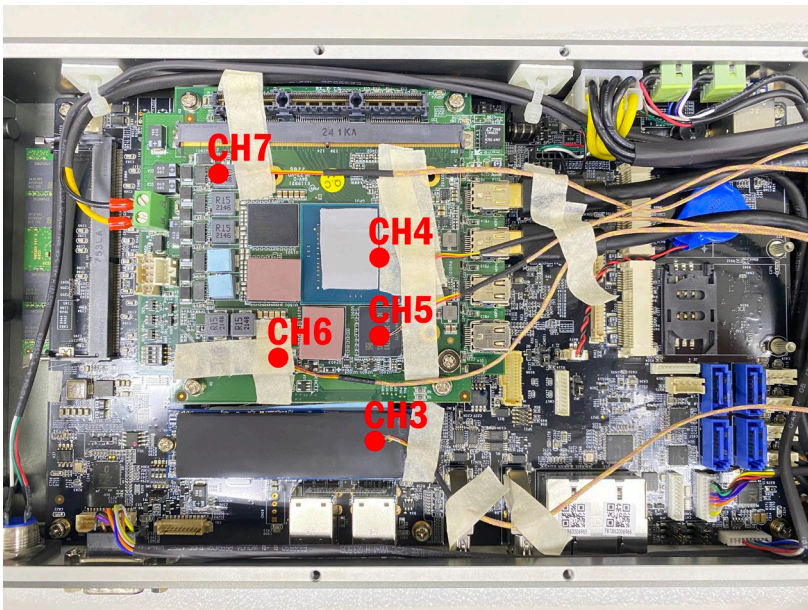
SR200-X4-A20

3. TEST PHOTO IN LAB

3-1. Thermocouple Placement



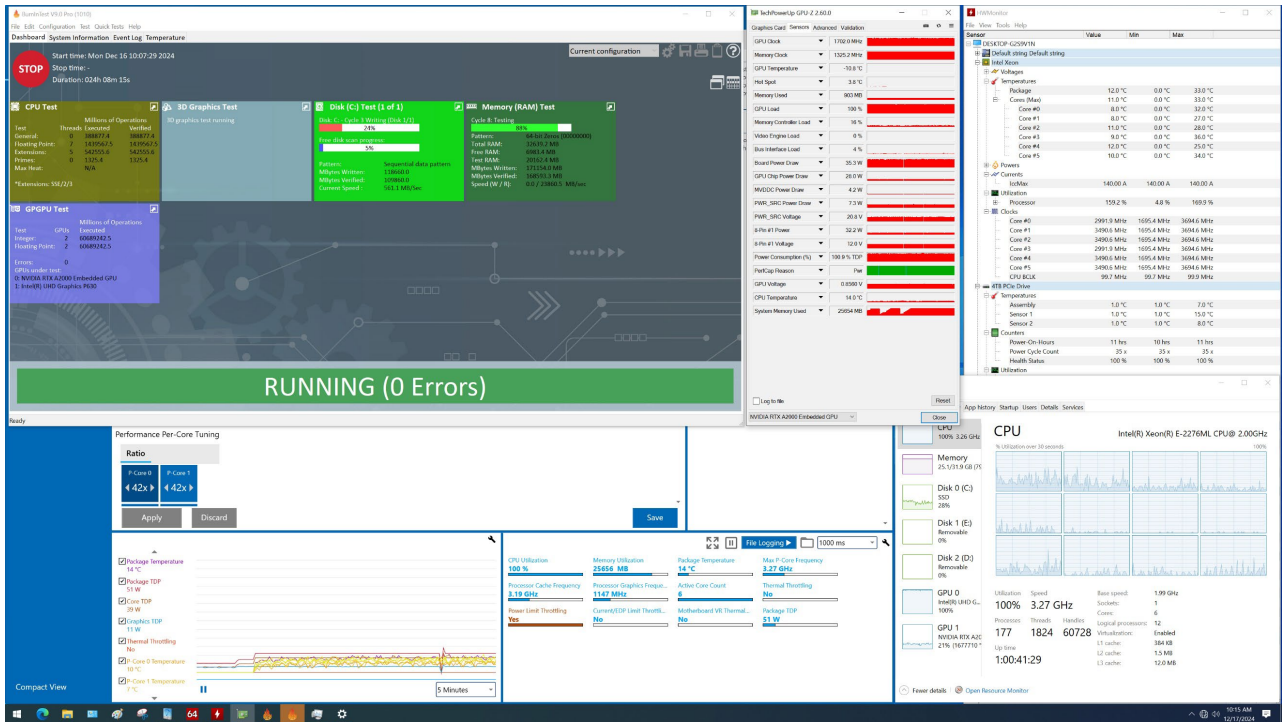
OVERVIEW						
EVENT 1hour						
1	CPU	7	GPU CHOCK	13	19	-Over
2	PCH	8	M.2 SSD	14	20	-Over
3	DRAM	9	PU 5	15	21	-Over
4	GPU	10	PL 3	16	22	-Over
5	GPU DRAM	11	L 14	17	23	-Over
6	GPU PU3402	12	CPU HS	18	24	-Over



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3-2. ENVIRONMENTAL TEMPERATURE TEST

- Chamber in -40°C



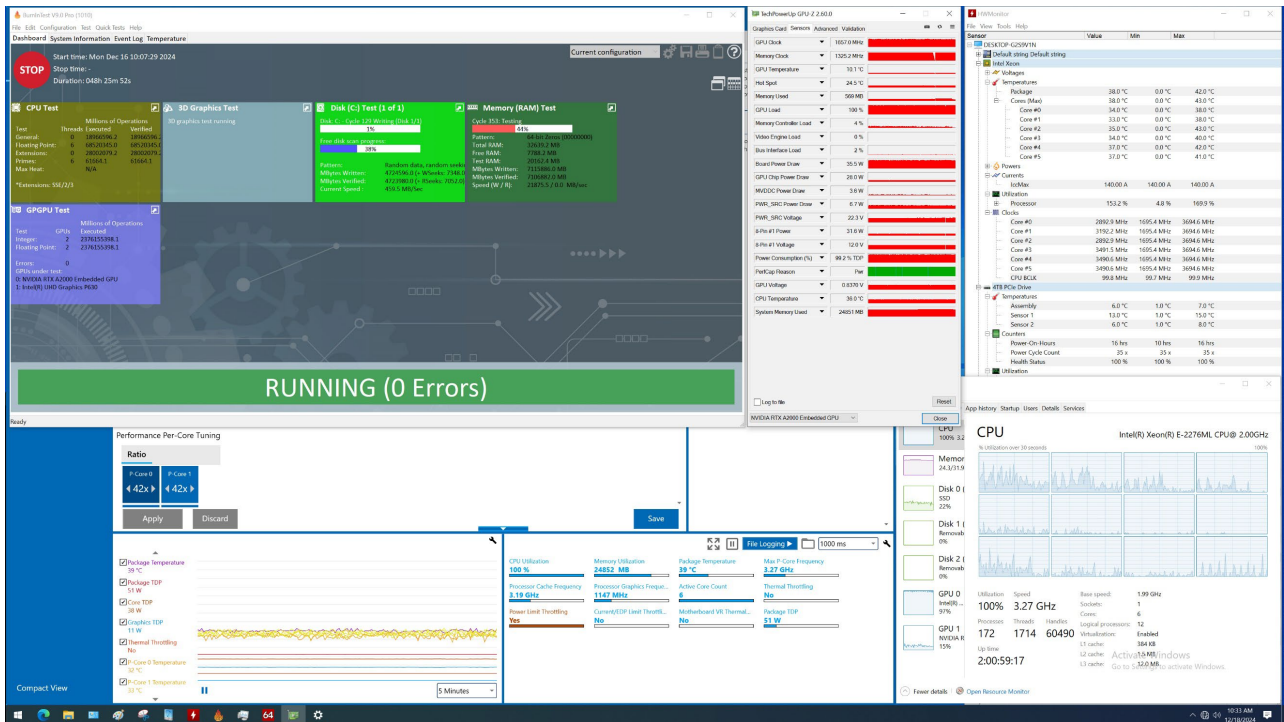
OVERVIEW				
2024/12/17 10:22:53				
STOP ELEMENT 1hour				
1	7	13	19	-0ver
2	8	14	20	-0ver
3	9	15	21	-0ver
4	10	16	22	-0ver
5	11	17	23	-0ver
6	12	18	24	-0ver

Measuring Point	Ambient Temp.	-40°C
	CPU Cores Max Temperature	11.0 °C
	CPU Cores Frequency (Unit: GHz)	3.27 GHz
	GPU Temperature	-10.8 °C
	GPU Hot Spot Temperature	3.8 °C
	GPU Frequency (Unit: MHz)	1702 MHz
CH1	CPU	-9.4 °C
CH2	PCH	-20.9 °C
CH3	DRAM	-24.1 °C
CH4	GPU	-20.0 °C
CH5	GPU-DRAM	-24.4 °C
CH6	GPU-PU3402	-10.7 °C
CH7	GPU-CHOCK	-18.0 °C
CH8	M.2 SSD	-28.1 °C
CH9	PU5	-6.3 °C
CH10	PL3	-14.1 °C
CH11	L14	-21.6 °C
CH12	CPU Heat sink	-28.1 °C
CH13	GPU Heat sink	-32.4 °C



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- Chamber in -20°C



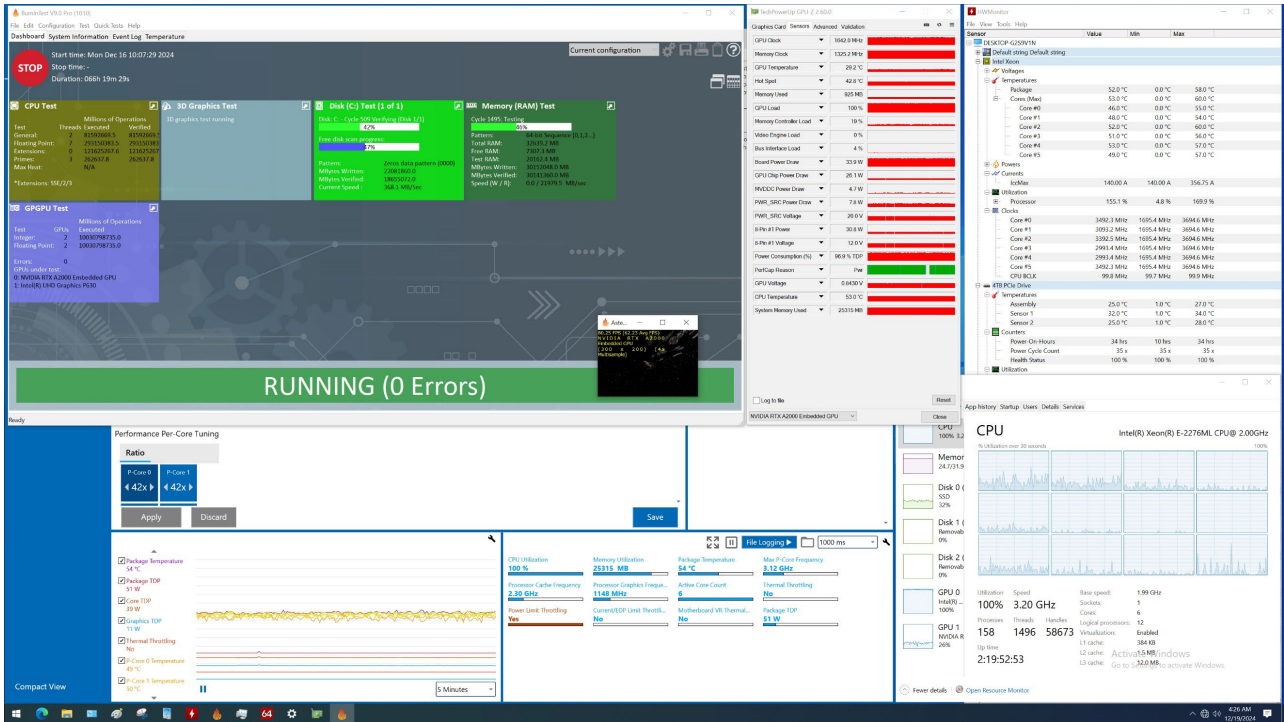
OVERVIEW				
2024/12/18 10:40:59				
1	14.0	4.6	13	19
2	1.8	-5.9	14	20
3	-1.1	17.1	15	21
4	2.3	9.2	16	22
5	-2.1	8.4	17	23
6	11.9	-3.2	18	24

Measuring Point	Ambient Temp.	-20°C
CPU P-Cores Max Temperature		38.0 °C
CPU E-Cores Frequency (Unit: GHz)		3.27 GHz
GPU Temperature		10.1 °C
GPU Hot Spot Temperature		24.5 °C
GPU Frequency (Unit: MHz)		1657 MHz
CH1	CPU	14.0 °C
CH2	PCH	1.8 °C
CH3	DRAM	-1.1 °C
CH4	GPU	2.3 °C
CH5	GPU-DRAM	-2.1 °C
CH6	GPU-PU3402	11.9 °C
CH7	GPU-CHOCK	4.6 °C
CH8	M.2 SSD	-5.9 °C
CH9	PU5	17.1 °C
CH10	PL3	9.2 °C
CH11	L14	0.4 °C
CH12	CPU Heat sink	-3.2 °C
CH13	GPU Heat sink	-10.0 °C



Performance Test SR200-X4-A20

- Chamber in 0°C



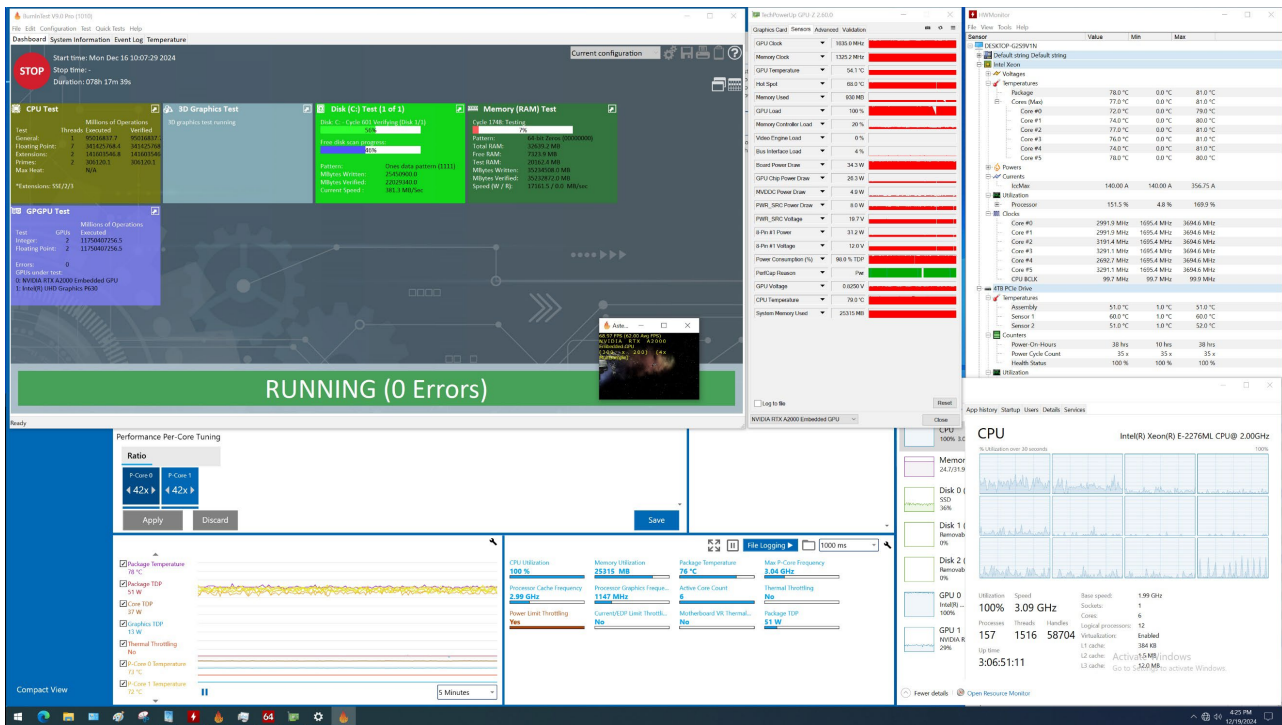
OVERVIEW					
2024/12/19 04:24:32					
1	7	13	19		
28.8	24.0	11.5	-Over		
2	8	14	20		
22.9	14.6	-Over	-Over		
3	9	15	21		
18.3	36.8	-Over	-Over		
4	10	16	22		
21.2	28.8	-Over	-Over		
5	11	17	23		
17.8	22.4	-Over	-Over		
6	12	18	24		
31.2	17.4	-Over	-Over		

Measuring Point	Ambient Temp.	0°C
	CPU P-Cores Max Temperature	53.0 °C
	CPU E-Cores Frequency (Unit: GHz)	3.20 GHz
	GPU Temperature	29.2 °C
	GPU Hot Spot Temperature	42.8 °C
	GPU Frequency (Unit: MHz)	1642 MHz
CH1	CPU	28.8 °C
CH2	PCH	22.9 °C
CH3	DRAM	18.3 °C
CH4	GPU	21.2 °C
CH5	GPU-DRAM	17.0 °C
CH6	GPU-PU3402	31.2 °C
CH7	GPU-CHOCK	24.0 °C
CH8	M.2 SSD	14.6 °C
CH9	PU5	36.0 °C
CH10	PL3	28.8 °C
CH11	L14	22.0 °C
CH12	CPU Heat sink	17.4 °C
CH13	GPU Heat sink	11.5 °C



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- Chamber in 25°C



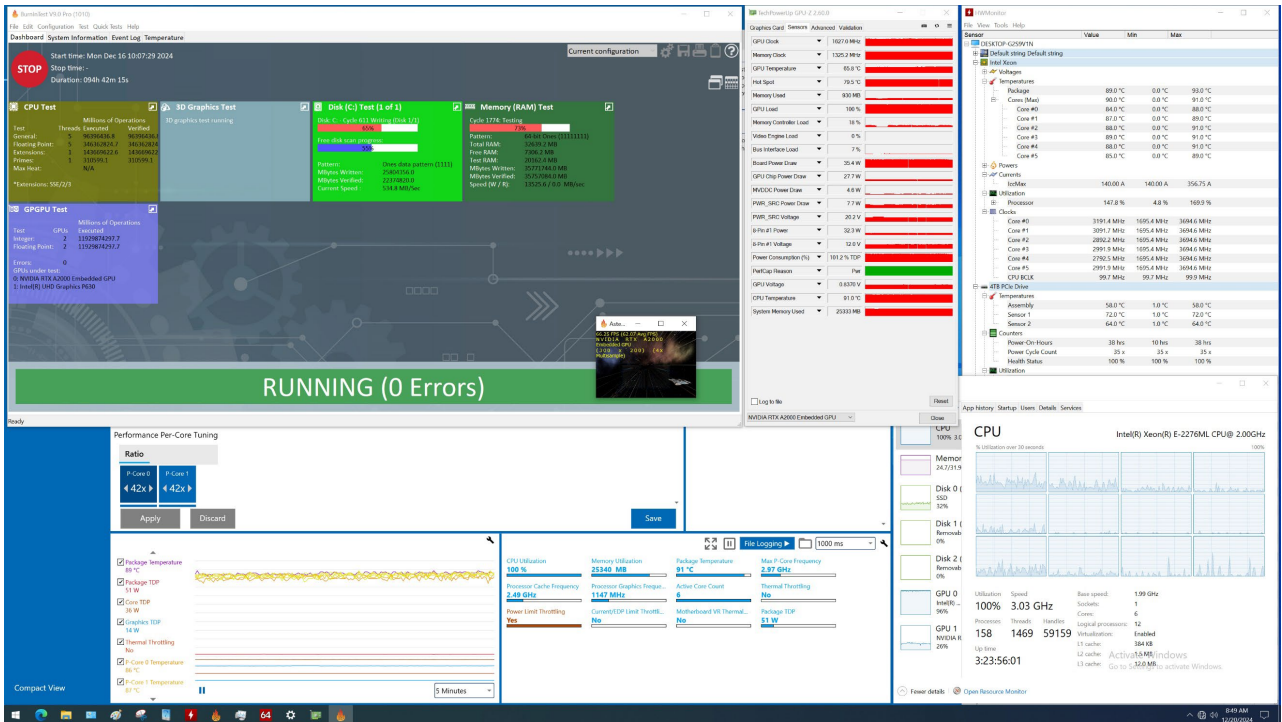
OVERVIEW					
2024/12/19 16:27:20					
1	7	13	19		
53.7	49.1	36.2	-Over		
2	8	14	20		
47.9	39.6	-Over	-Over		
3	9	15	21		
43.3	61.8	-Over	-Over		
4	10	16	22		
45.8	53.4	-Over	-Over		
5	11	17	23		
42.1	47.5	-Over	-Over		
6	12	18	24		
55.8	42.4	-Over	-Over		

Measuring Point	Ambient Temp.	25°C
CPU P-Cores Max Temperature		77.0 °C
CPU E-Cores Frequency (Unit: GHz)		3.09 GHz
GPU Temperature		54.1 °C
GPU Hot Spot Temperature		68.0 °C
GPU Frequency (Unit: MHz)		1635 MHz
CH1	CPU	53.7 °C
CH2	PCH	47.9 °C
CH3	DRAM	43.3 °C
CH4	GPU	45.8 °C
CH5	GPU-DRAM	42.1 °C
CH6	GPU-PU3402	55.8 °C
CH7	GPU-CHOCK	49.1 °C
CH8	M.2 SSD	39.6 °C
CH9	PU5	61.0 °C
CH10	PL3	53.4 °C
CH11	L14	47.5 °C
CH12	CPU Heatsink	42.4 °C
CH13	GPU Heatsink	36.2 °C



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- Chamber in 40°C



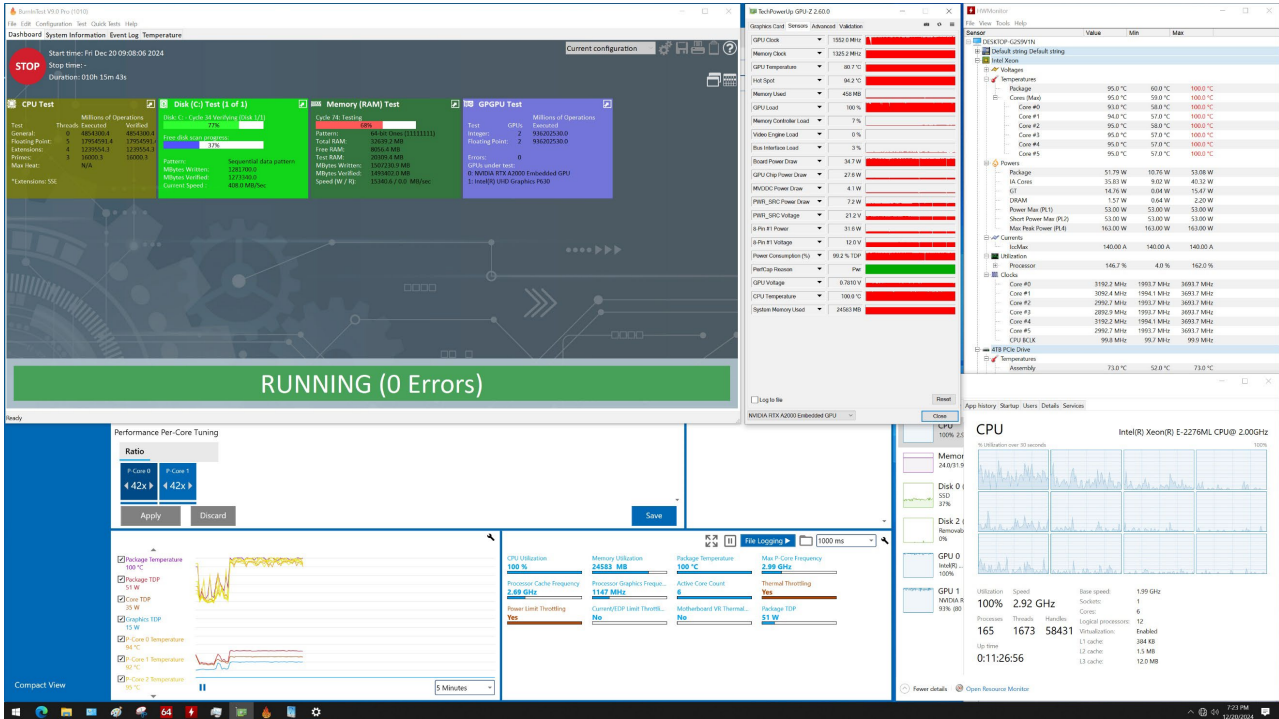
OVERVIEW					
2024/12/20 08:51:27					
1	7	13	19		
66.2	61.8	49.5	-0ver		
2	8	14	20	-0ver	-0ver
68.5	52.3	-0ver	-0ver		
3	9	15	21	-0ver	-0ver
55.9	72.9	-0ver	-0ver		
4	10	16	22	-0ver	-0ver
58.4	65.3	-0ver	-0ver		
5	11	17	23	-0ver	-0ver
54.9	59.5	-0ver	-0ver		
6	12	18	24	-0ver	-0ver
68.2	54.7	-0ver	-0ver		

Measuring Point	Ambient Temp.	40°C
CPU P-Cores Max Temperature		90.0 °C
CPU E-Cores Frequency (Unit: GHz)		3.03 GHz
GPU Temperature		65.8 °C
GPU Hot Spot Temperature		79.5 °C
GPU Frequency (Unit: MHz)		1627 MHz
CH1	CPU	66.2 °C
CH2	PCH	60.5 °C
CH3	DRAM	55.9 °C
CH4	GPU	58.4 °C
CH5	GPU-DRAM	54.9 °C
CH6	GPU-PU3402	68.2 °C
CH7	GPU-CHOCK	61.8 °C
CH8	M.2 SSD	52.3 °C
CH9	PU5	72.9 °C
CH10	PL3	65.3 °C
CH11	L14	59.5 °C
CH12	CPU Heat sink	54.7 °C
CH13	GPU Heat sink	49.5 °C



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- Chamber in 50°C



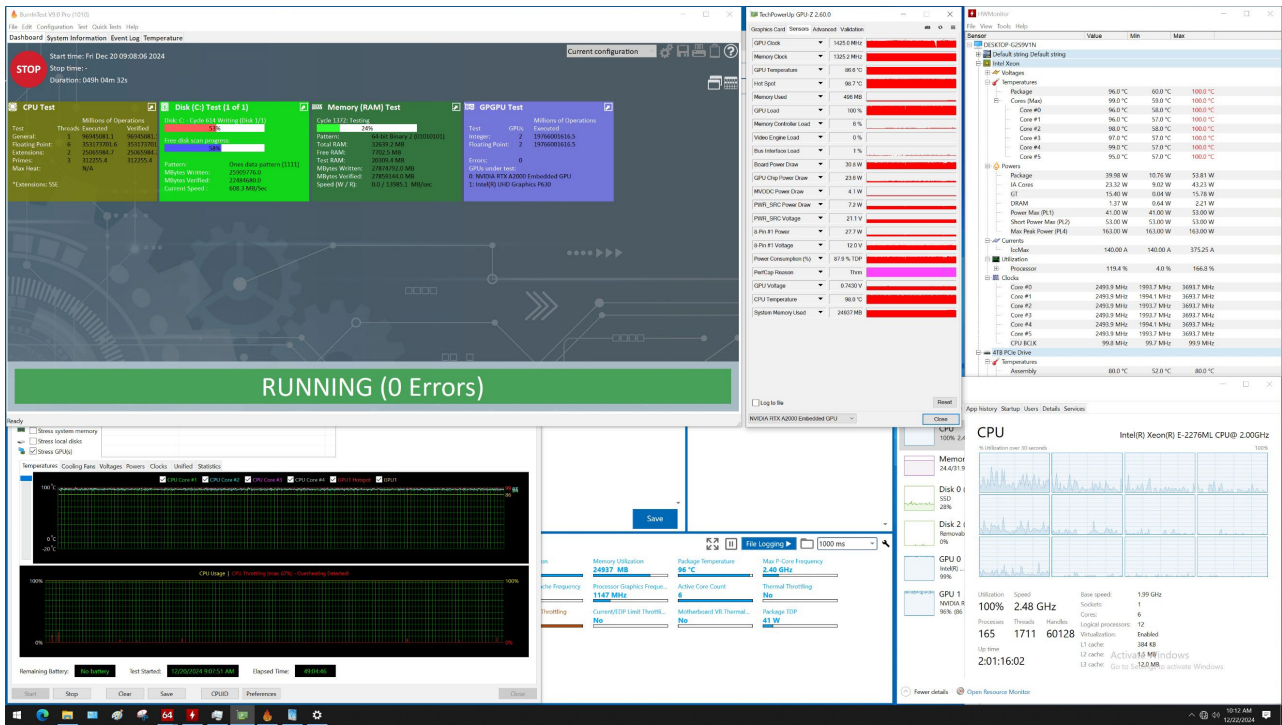
OVERVIEW				
2024/12/20 19:26:27				
1	7	13	19	
76.6	76.5	62.8	-Over	
2	8	14	20	
71.0	67.3	-Over	-Over	
3	9	15	21	
66.7	83.9	-Over	-Over	
4	10	16	22	
72.4	75.4	-Over	-Over	
5	11	17	23	
69.6	70.2	-Over	-Over	
6	12	18	24	
81.6	61.6	-Over	-Over	

Measuring Point	Ambient Temp.	50°C
	CPU P-Cores Max Temperature	95.0 °C
	CPU E-Cores Frequency (Unit: GHz)	2.92 GHz
	GPU Temperature	80.7 °C
	GPU Hot Spot Temperature	94.2 °C
	GPU Frequency (Unit: MHz)	1552 MHz
CH1	CPU	76.6 °C
CH2	PCH	71.0 °C
CH3	DRAM	66.7 °C
CH4	GPU	72.4 °C
CH5	GPU-DRAM	69.6 °C
CH6	GPU-PU3402	81.6 °C
CH7	GPU-CHOCK	76.5 °C
CH8	M.2 SSD	67.3 °C
CH9	PU5	83.9 °C
CH10	PL3	75.4 °C
CH11	L14	70.2 °C
CH12	CPU Heatsink	61.6 °C
CH13	GPU Heatsink	62.8 °C



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- Chamber in 60°C



OVERVIEW				
2024/12/22 10:13:35				
1	82.4	7	13	19
2	78.3	8	14	20
3	74.7	9	15	21
4	79.8	10	16	22
5	77.7	11	17	23
6	88.4	12	18	24

Measuring Point	Ambient Temp.	60°C
	CPU P-Cores Max Temperature	99.0 °C
	CPU E-Cores Frequency (Unit: GHz)	2.48 GHz
	GPU Temperature	86.6 °C
	GPU Hot Spot Temperature	98.7 °C
	GPU Frequency (Unit: MHz)	1425 MHz
CH1	CPU	82.4 °C
CH2	PCH	78.3 °C
CH3	DRAM	74.7 °C
CH4	GPU	79.8 °C
CH5	GPU-DRAM	77.7 °C
CH6	GPU-PU3402	88.4 °C
CH7	GPU-CHOCK	83.7 °C
CH8	M.2 SSD	75.6 °C
CH9	PU5	88.7 °C
CH10	PL3	81.2 °C
CH11	L14	78.1 °C
CH12	CPU Heat sink	70.8 °C
CH13	GPU Heat sink	71.7 °C



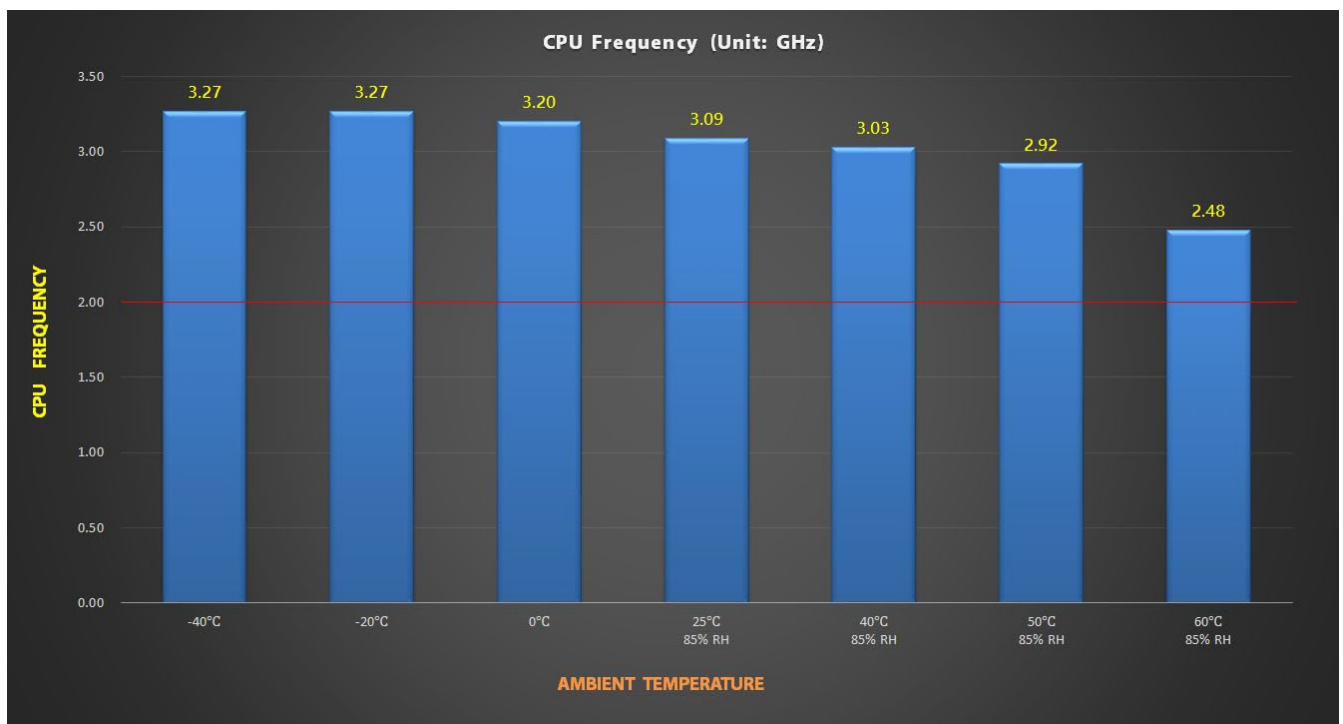
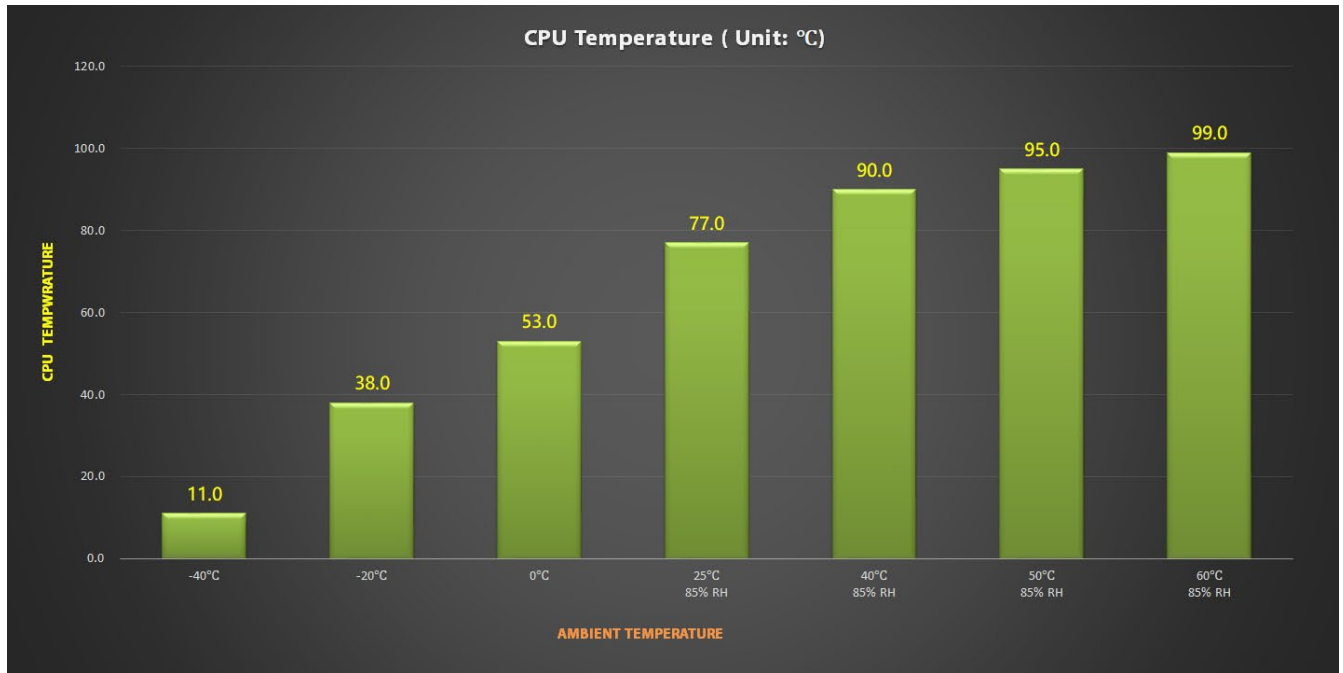
4. THERMAL TEST RESULT(-40°C ~ +60°C)

Temperature & Frequency / Thermocouple Measurements

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 Cores Max Temperature (Unit: °C) <small>Base Frequency: 2.00 GHz</small>		11.0	38.0	53.0	77.0	90.0	95.0	99.0
CPU Cores Frequency (Unit: GHz)		3.27	3.27	3.20	3.09	3.03	2.92	2.48
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
GPU Temperature (Unit: °C)		-10.8	10.1	29.2	54.1	65.8	80.7	86.6
GPU Hot Spot Temperature (Unit: °C)		3.8	24.5	42.8	68.0	79.5	94.2	98.7
GPU Frequency (Unit: MHz) <small>Base Frequency: 1117 MHz</small>		1702.0	1657.0	1642.0	1635.0	1627.0	1552.0	1425.0
Thermocouple measuring point	Ambient Temp.	-40°C	-20°C	0°C	25°C 85% RH	40°C 85% RH	50°C 85% RH	60°C 85% RH
CH1 CPU		-9.4	14.0	28.8	53.7	66.2	76.6	82.4
CH2 PCH		-20.9	1.8	22.9	47.9	60.5	71.0	78.3
CH3 DRAM		-24.1	-1.1	18.3	43.3	55.9	66.7	74.7
CH4 GPU		-20.0	2.3	21.2	45.8	58.4	72.4	79.8
CH5 GPU-DRAM		-24.4	-2.1	17.0	42.1	54.9	69.6	77.7
CH6 GPU-PU3402		-10.7	11.9	31.2	55.8	68.2	81.6	88.4
CH7 GPU-CHOCK		-18.0	4.6	24.0	49.1	61.8	76.5	83.7
CH8 M.2 SSD		-28.1	-5.9	14.6	39.6	52.3	67.3	75.6
CH9 PU5		-6.3	17.1	36.0	61.0	72.9	83.9	88.7
CH10 PL3		-14.1	9.2	28.8	53.4	65.3	75.4	81.2
CH11 L14		-21.6	0.4	22.0	47.5	59.5	70.2	78.1
CH12 CPU Heat sink		-28.1	-3.2	17.4	42.4	54.7	61.6	70.8
CH13 GPU Heat sink		-32.4	-10.0	11.5	36.2	49.5	62.8	71.7

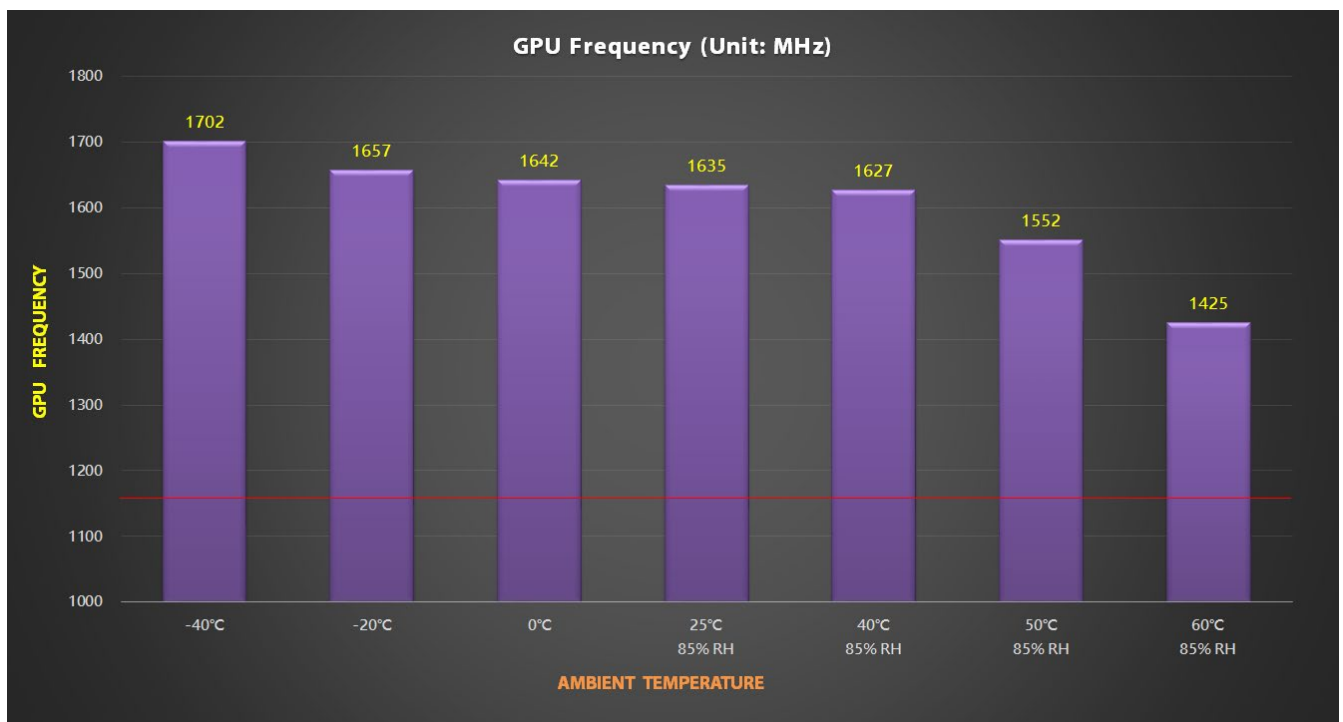
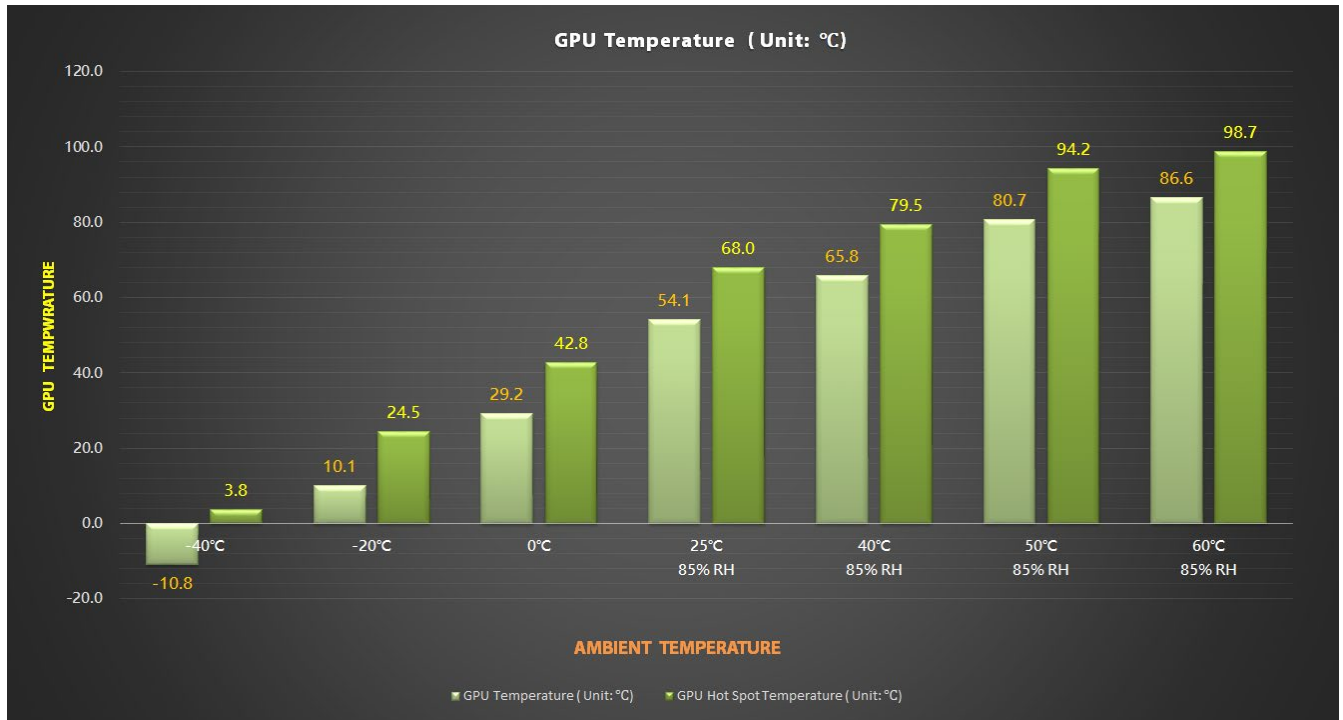
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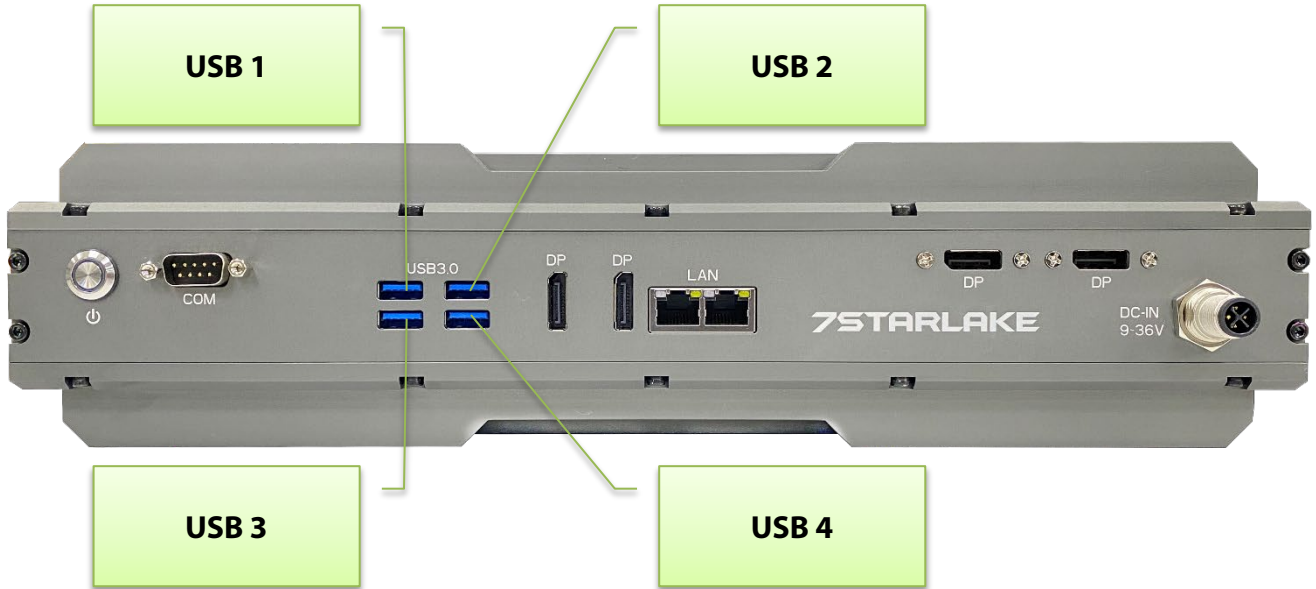
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5. I/O FUNCTION TEST

5-1. USB 3.0



USB 1

The screenshot shows the PassMark(TM) USB3Test software interface. The 'Device' is set to 'PMU33ZQ2CX (SuperSpeed 5Gb/s)' and the 'Connection Type' is 'SuperSpeed 5Gb/s'. The 'Test mode' is set to 'Benchmark'. The results table shows a 'Status: BENCHMARK test - Complete' and a 'Max. Rate' of 3372 Mb/s. A bar chart on the right shows the data rate for each block, with a peak of 3372 Mb/s. The 'Duration' is set to 10 minutes.

Block	Write Data Rate (Mb/s)	Read Data Rate (Mb/s)
Write block 805	3368.7	421.1
Read block 806	3369.0	421.1
Write block 806	3371.3	421.4
Read block 807	3368.7	421.1
Write block 807	3370.8	421.4
Read block 808	3364.1	420.5
Write block 808	3371.9	421.5
Read block 809	3369.7	421.2
OVERALL BENCHMARK RESULT:		
Test Start time:		
Duration: 000h 10m 00s		
Total number of bytes written: 103020 MB		
Total number of bytes read: 103147 MB		
Maximum Write Data Rate: 3372.5 Mb/s (421.6 MB/s)		
Maximum Read Data Rate: 3372.7 Mb/s (421.6 MB/s)		
Minimum Write Data Rate: 3087.2 Mb/s (385.9 MB/s)		
Minimum Read Data Rate: 3362.6 Mb/s (420.3 MB/s)		
Average Write Data Rate: 3369.9 Mb/s (421.2 MB/s)		
Average Read Data Rate: 3369.2 Mb/s (421.2 MB/s)		
Average Data Rate: 3369.6 Mb/s (421.2 MB/s)		
Minimum Data Rate: 3087.2 Mb/s (385.9 MB/s)		

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USB 2

PassMark(TM) USB3Test
✕

Select USB Device


Device: PMU33ZQ2DG (SuperSpeed 5Gb/s)

Connection Type: SuperSpeed 5Gb/s

Test mode

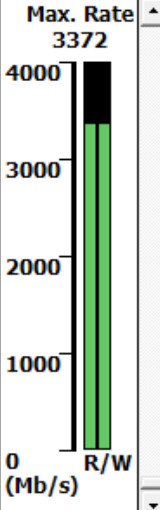
Loopback

Benchmark



Results
Status: BENCHMARK test - Complete

Duration: 000h 30m 00s	Operations: 0	Errors: 0
Write block 2383: 3368.1 Mb/s (421.0 MB/s)		
Read block 2384: 3368.0 Mb/s (421.0 MB/s)		
Write block 2384: 3371.8 Mb/s (421.5 MB/s)		
Read block 2385: 3370.5 Mb/s (421.3 MB/s)		
Write block 2385: 3371.7 Mb/s (421.5 MB/s)		
Read block 2386: 3368.7 Mb/s (421.1 MB/s)		
Write block 2386: 3371.2 Mb/s (421.4 MB/s)		
Read block 2387: 3369.7 Mb/s (421.2 MB/s)		
OVERALL BENCHMARK RESULT:		
Test Start time:		
Duration: 000h 30m 00s		
Total number of bytes written: 304215 MB		
Total number of bytes read: 304342 MB		
Maximum Write Data Rate: 3372.1 Mb/s (421.5 MB/s)		
Maximum Read Data Rate: 3372.7 Mb/s (421.6 MB/s)		
Minimum Write Data Rate: 2731.4 Mb/s (341.4 MB/s)		
Minimum Read Data Rate: 2733.3 Mb/s (341.7 MB/s)		
Average Write Data Rate: 3350.8 Mb/s (418.8 MB/s)		
Average Read Data Rate: 3362.1 Mb/s (420.3 MB/s)		
Average Data Rate: 3356.4 Mb/s (419.6 MB/s)		
Minimum Data Rate: 2731.4 Mb/s (341.4 MB/s)		



Max. Rate: 3372

Voltage 5.01V

Speed 5Gb/s

Duration: Minutes

Start

Stop

Configure

Flash LEDs

Clear Serial

Save Log

Reset All

Help

About

Exit

Performance Test

SR200-X4-A20

USB 3

PassMark(TM) USB3Test

Select USB Device


Device:


Connection Type:

Test mode

Loopback

Benchmark

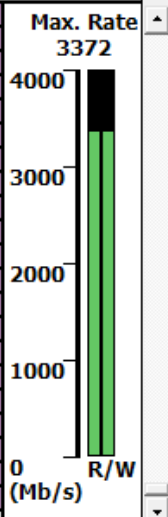




Results	Status: <i>BENCHMARK test - Complete</i>
Duration: 000h 10m 00s	Operations: 0
	Errors: 0
Write block 805: 3368.7 Mb/s (421.1 MB/s)	
Read block 806: 3369.0 Mb/s (421.1 MB/s)	
Write block 806: 3371.3 Mb/s (421.4 MB/s)	
Read block 807: 3368.7 Mb/s (421.1 MB/s)	
Write block 807: 3370.8 Mb/s (421.4 MB/s)	
Read block 808: 3364.1 Mb/s (420.5 MB/s)	
Write block 808: 3371.9 Mb/s (421.5 MB/s)	
Read block 809: 3369.7 Mb/s (421.2 MB/s)	
OVERALL BENCHMARK RESULT:	
Test Start time:	
Duration: 000h 10m 00s	
Total number of bytes written: 103020 MB	
Total number of bytes read: 103147 MB	
Maximum Write Data Rate: 3372.5 Mb/s (421.6 MB/s)	
Maximum Read Data Rate: 3372.7 Mb/s (421.6 MB/s)	
Minimum Write Data Rate: 3087.2 Mb/s (385.9 MB/s)	
Minimum Read Data Rate: 3362.6 Mb/s (420.3 MB/s)	
Average Write Data Rate: 3369.9 Mb/s (421.2 MB/s)	
Average Read Data Rate: 3369.2 Mb/s (421.2 MB/s)	
Average Data Rate: 3369.6 Mb/s (421.2 MB/s)	
Minimum Data Rate: 3087.2 Mb/s (385.9 MB/s)	

Max. Rate

3372



0 R/W (Mb/s)

Voltage 4.98V

Speed 5Gb/s

Duration Minutes

Start

Stop

Configure

Flash LEDs

Clear Serial

Save Log

Reset All

Help

About

Exit

7STARLAKE

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Performance Test

SR200-X4-A20

USB 4

PassMark(TM) USB3Test
✕

Select USB Device


Device:


Connection Type:

Test mode

Loopback

Benchmark

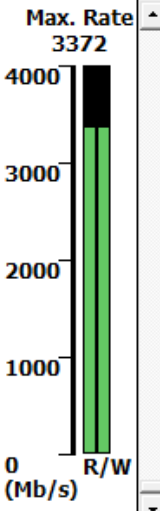




Results	Status: BENCHMARK test - Complete
Duration: 000h 10m 00s	Operations: 0
	Errors: 0
Write block 805: 3371.2 Mb/s (421.4 MB/s)	
Read block 806: 3363.3 Mb/s (420.4 MB/s)	
Write block 806: 3371.1 Mb/s (421.4 MB/s)	
Read block 807: 3371.7 Mb/s (421.5 MB/s)	
Write block 807: 3371.6 Mb/s (421.4 MB/s)	
Read block 808: 3362.5 Mb/s (420.3 MB/s)	
Write block 808: 3091.8 Mb/s (386.5 MB/s)	
Read block 809: 3372.8 Mb/s (421.6 MB/s)	
OVERALL BENCHMARK RESULT:	
Test Start time:	
Duration: 000h 10m 00s	
Total number of bytes written: 103020 MB	
Total number of bytes read: 103147 MB	
Maximum Write Data Rate: 3372.5 Mb/s (421.6 MB/s)	
Maximum Read Data Rate: 3372.8 Mb/s (421.6 MB/s)	
Minimum Write Data Rate: 3091.8 Mb/s (386.5 MB/s)	
Minimum Read Data Rate: 3361.3 Mb/s (420.2 MB/s)	
Average Write Data Rate: 3370.2 Mb/s (421.3 MB/s)	
Average Read Data Rate: 3369.3 Mb/s (421.2 MB/s)	
Average Data Rate: 3369.7 Mb/s (421.2 MB/s)	
Minimum Data Rate: 3091.8 Mb/s (386.5 MB/s)	

Voltage 5.01V
Speed 5Gb/s

Duration Minutes



Max. Rate
3372

4000
3000
2000
1000
0 (Mb/s)

R/W

Start	Stop
Configure	Flash LEDs
Clear Serial	Save Log
Reset All	Help
About	Exit

Performance Test

SR200-X4-A20

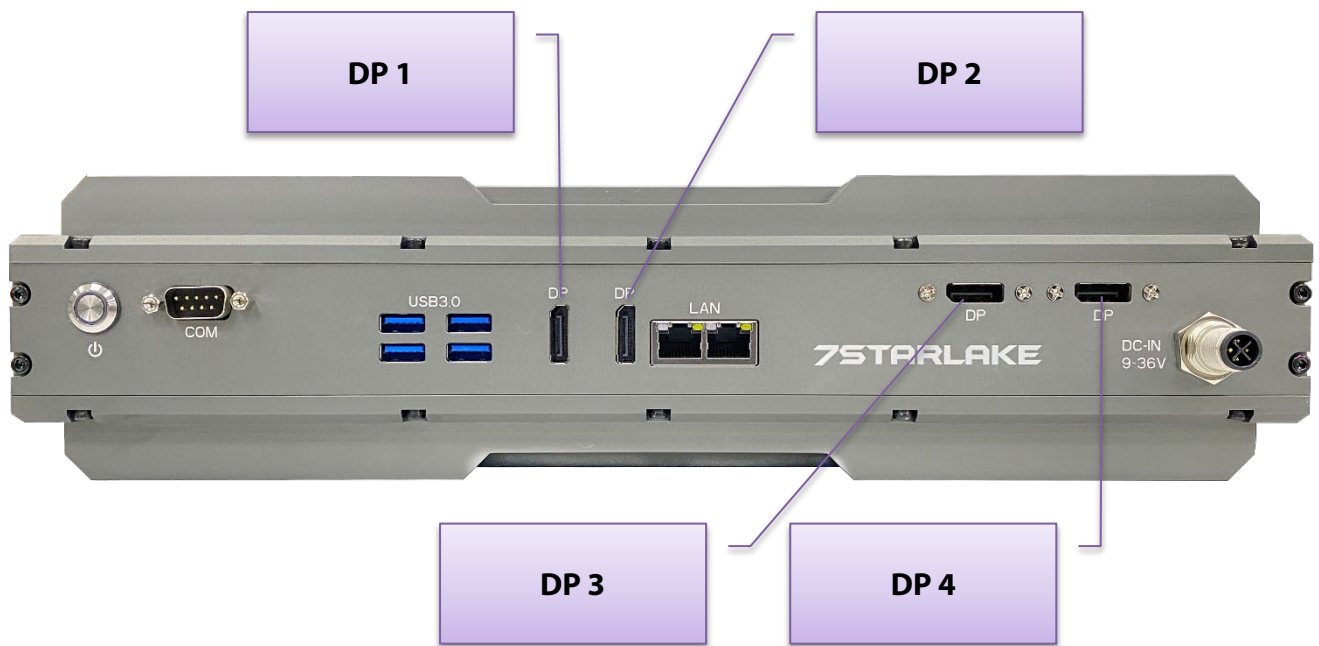
5-3. Serial Port (RS232)

A screenshot of the BurnInTest V9.0 Pro software interface. The window title is 'BurnInTest V9.0 Pro (1010)'. The menu bar includes 'File', 'Edit', 'Configuration', 'Test', 'Quick Tests', and 'Help'. The main interface has tabs for 'Dashboard', 'System Information', 'Event Log', and 'Temperature'. A 'STOP' button is visible on the left. The 'Current configuration' dropdown is set to 'Current configuration'. The test details are as follows:

Serial Port:	COM1
Test speed:	115200 bits/sec
Bytes sent:	606871200
Bytes received:	606871200
Errors:	0
Throughput:	11314.6 Bytes/sec

A large green banner at the bottom of the test area displays 'RUNNING (0 Errors)'. The status bar at the bottom left shows 'Ready'.

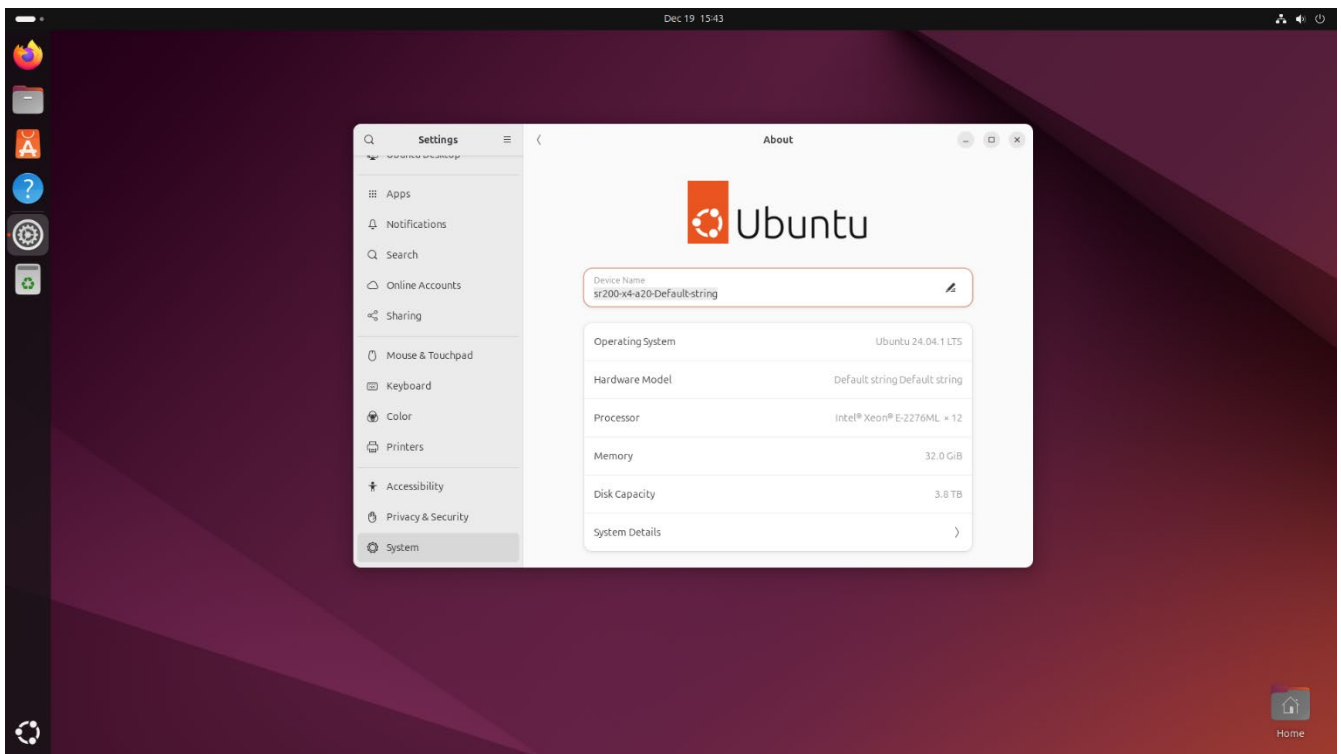
5-4. Display Port (Resoution 4K)



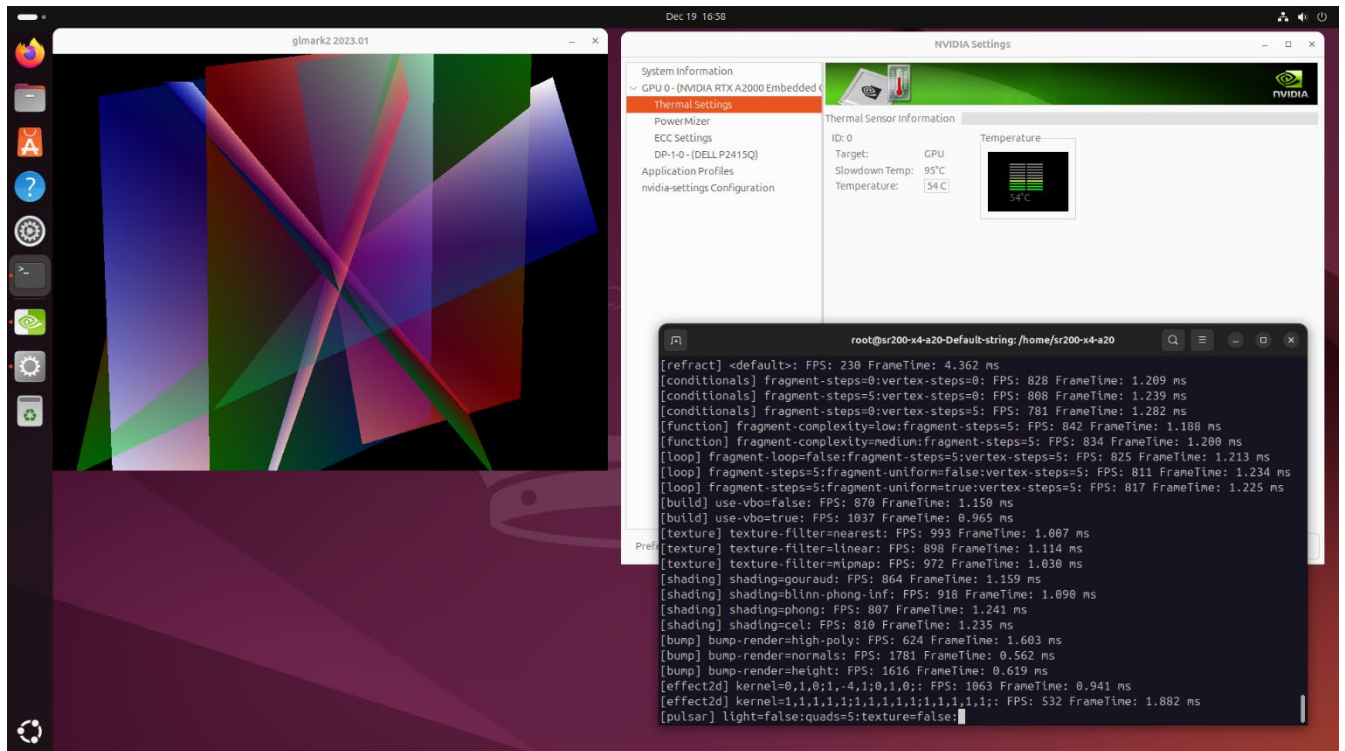
Simultaneous output of 4K resolution poses no problems.

6. OPERATING SYSTEM COMPATIBILITY

6-1. UBUNTU 24.04 LTS



6-1-1. GPU Burn-in Test under Ubuntu



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