Product Outgoing Quality Inspection Report

AV400-T4

S/N: SR2024090501003

Product Manager	R&D Leader	Mechanical Engineer	System Engineer	Test Engineer
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Date: March 21, 2025

AV400-T4

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1. SPECIFICATION

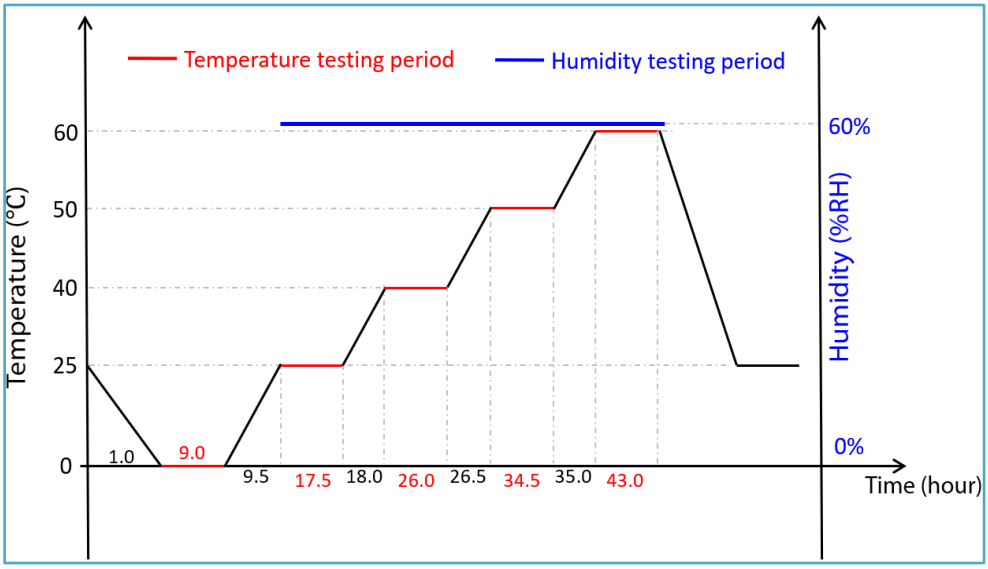
1-1. SYSTEM CONFIGURATION

Motherboard	Deep Micro-ATX (9.6" x 10.5") BIOS Version: 5.15 UEFI Version: 1.10 BMC Version: 1.06.00 CPLD_MB Version: 0.03
CPU	Ampere Altra M96-28 Processor Total Cores: 96 Total Threads: 96 Max Turbo Frequency: 2800 MHz TDP: 132 W
Memory	SAMSUNG M393A4K40EB3-CWEBY DDR4 32GB *4pcs (TOTAL:128GB)
Storage	7Sarlake 7SLESO256GBTLEW NVMe M.2 SSD 256GB 7Sarlake 7SLSSB02TBTLEW-SD2-4 SATA SSD 2TB
GPU	NVIDIA RTX™ 4000 SFF Ada Generation GPU Memory : 20GB GDDR6 with error-correction code (ECC) Max Power Consumption: 70W BIOS Version: Driver Version: CUDA Parallel-Processing Cores: 2560 CUDA® cores GPU Base/Boost Clock: 607 MHz / 1117 MHz
ADD on Card	PCAN-M.2 CAN interface for the M.2 slot (uses PCIe lane) Extended operating temperature range from -40 to +85 °C
	PCIe to SATA

1-2. PRODUCT INTERIOR PHOTOS

2. TEST PLAN

2-1. THERMAL MEASUREMENT PROCESS

Test Purpose	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.
Test Equipment	1. KSON THS-B4T-150 Chamber.
Quantity Tested	Minimum 1 Set
Test Software	CPU Stress: Stress-ng GPU Stress: glmark2 LAN Speed Test: iPerf3
Test Procedure	1. Thermal pre-scan measurement: Temperature: **0˚C～60˚C** Humidity: **60%RH (Temperature above 25℃)** 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 Ubuntu 24.04.2 LTS ARM 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.
Test Diagram of Curves	Environment defines for 43 hours. 

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
0˚C	PASS
25˚C / 60%RH	PASS
40˚C / 60%RH	PASS
50˚C / 60%RH	PASS
60˚C / 60%RH	PASS

2-2-2. I/O Function

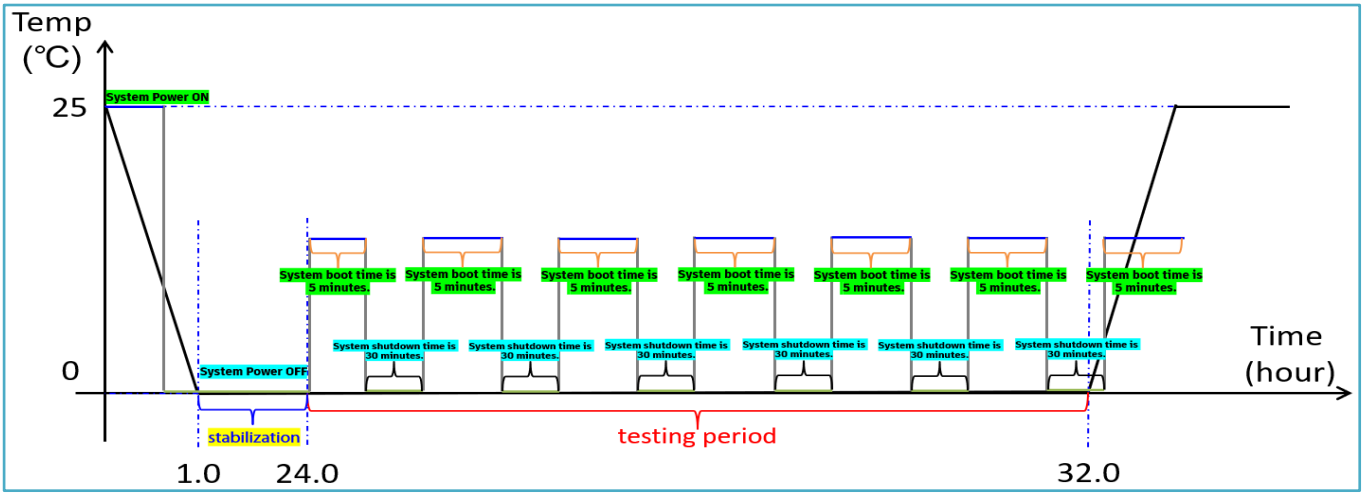
#Confirm the system specifications and I/O connection to ensure that they are functioning properly

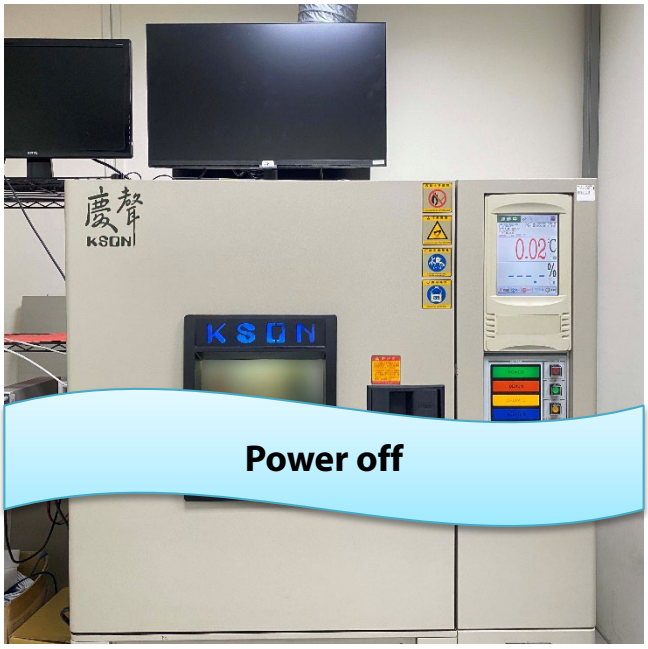
Item	Test Criteria	Result
LAN Port (1Gbps)	Connection LAN SWITCH/HUB transfer data test, it can work normally.	PASS
LAN Port (25Gbps)	Connection LAN SWITCH/HUB transfer data test, it can work normally.	PASS
LAN Port (25Gbps)	Connection LAN SWITCH/HUB transfer data test, it can work normally.	PASS
USB3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
USB3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
USB3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
USB3.0	Connect a PassMark USB 3.0 Loopback Plugs for testing, it can work normally.	PASS
IPMI Port	Check work well.	PASS
VGA Port	Check work well.	PASS
Mini DP	Check work well.	PASS
Mini DP	Check work well.	PASS
Mini DP	Check work well.	PASS
Mini DP	Check work well.	PASS

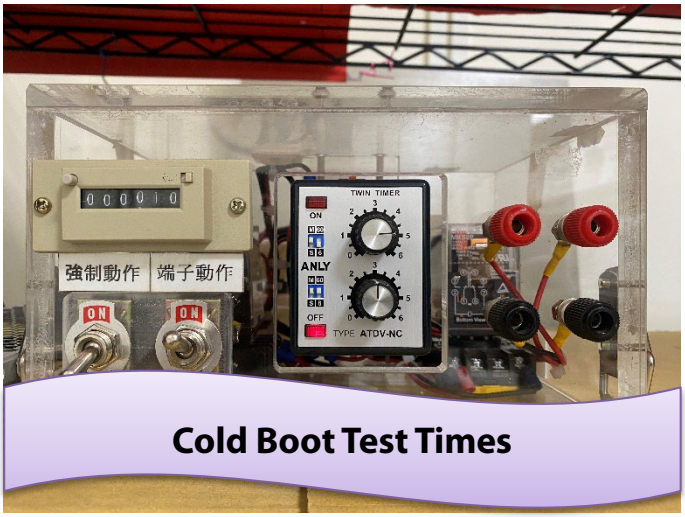
2-2-3. Low-temperature & Boot-up

#Power supply under 0℃ and ensure that the system boot up properly

Ambient Temp.	Cold Boot Test Times	Test Result
0℃	10 times	PASS





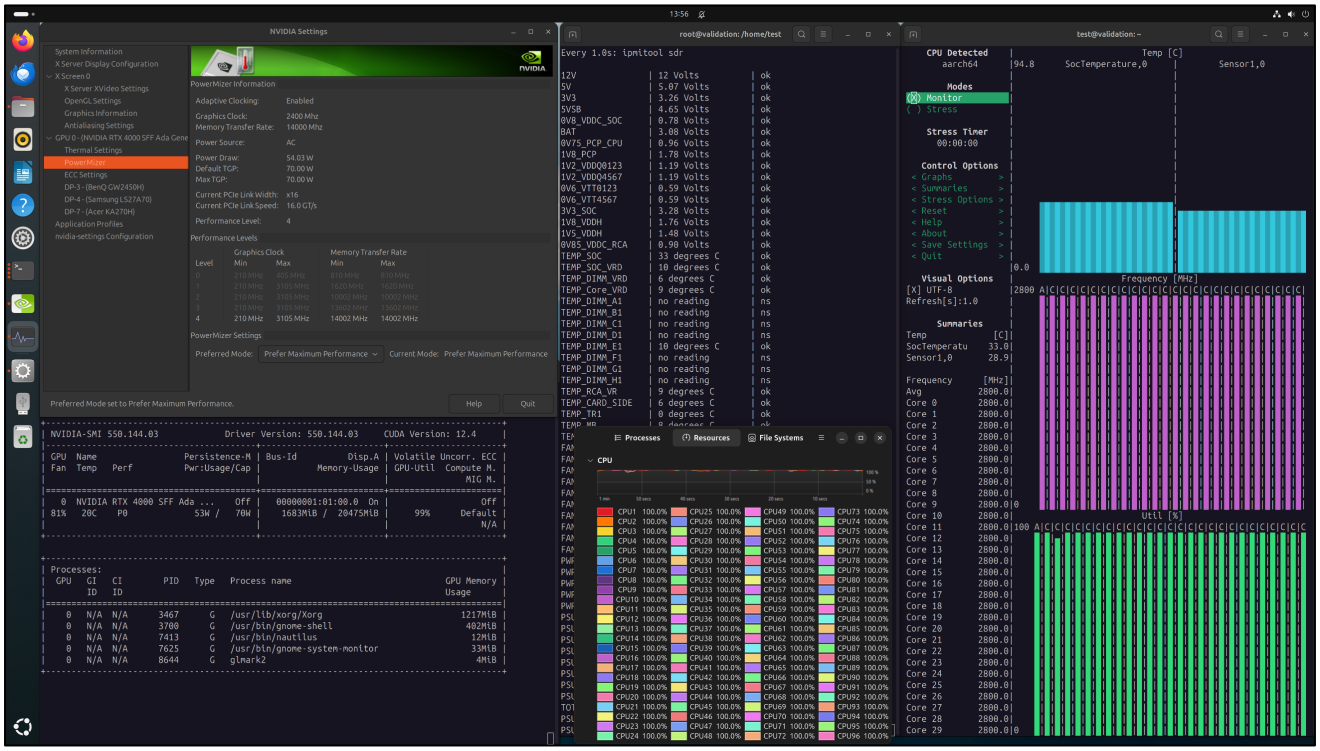


2-3. Power Consumption

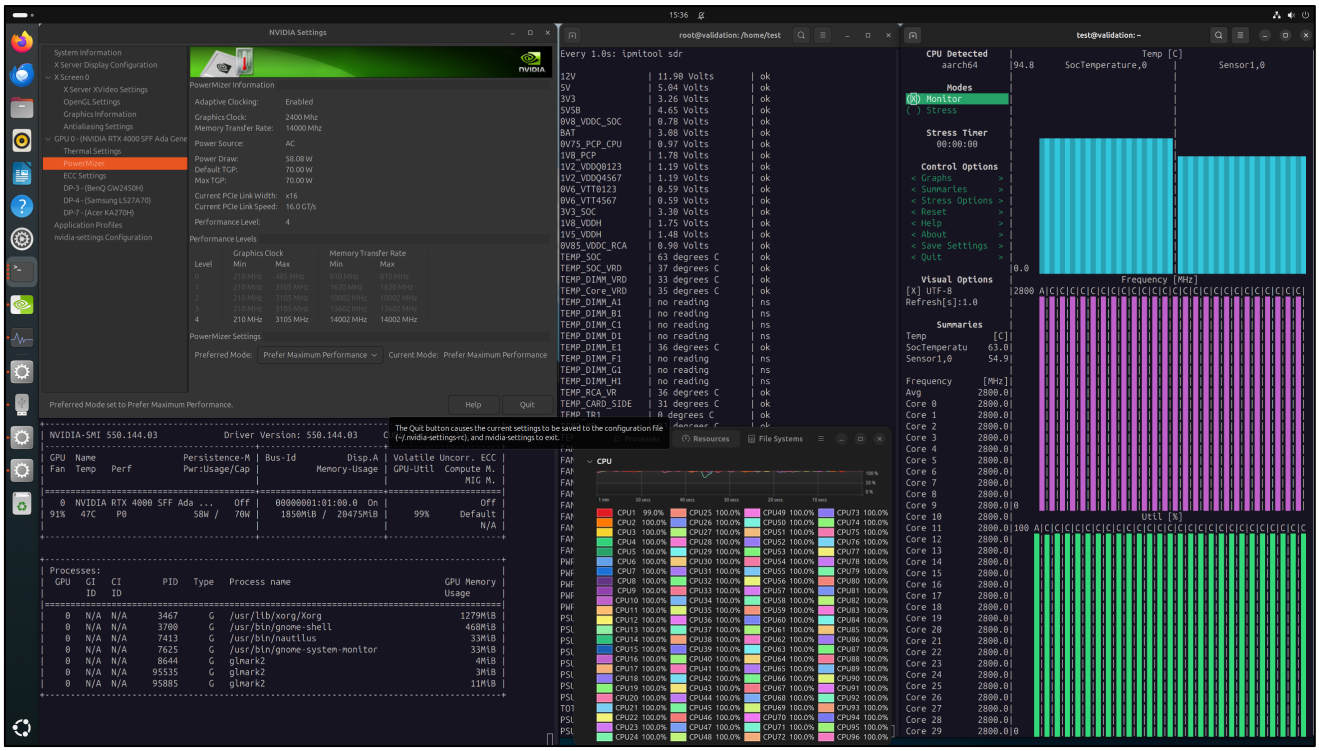
Voltage	Current	Wattage
24.0V	15.08A	362W

3. TEST PHOTO IN LAB

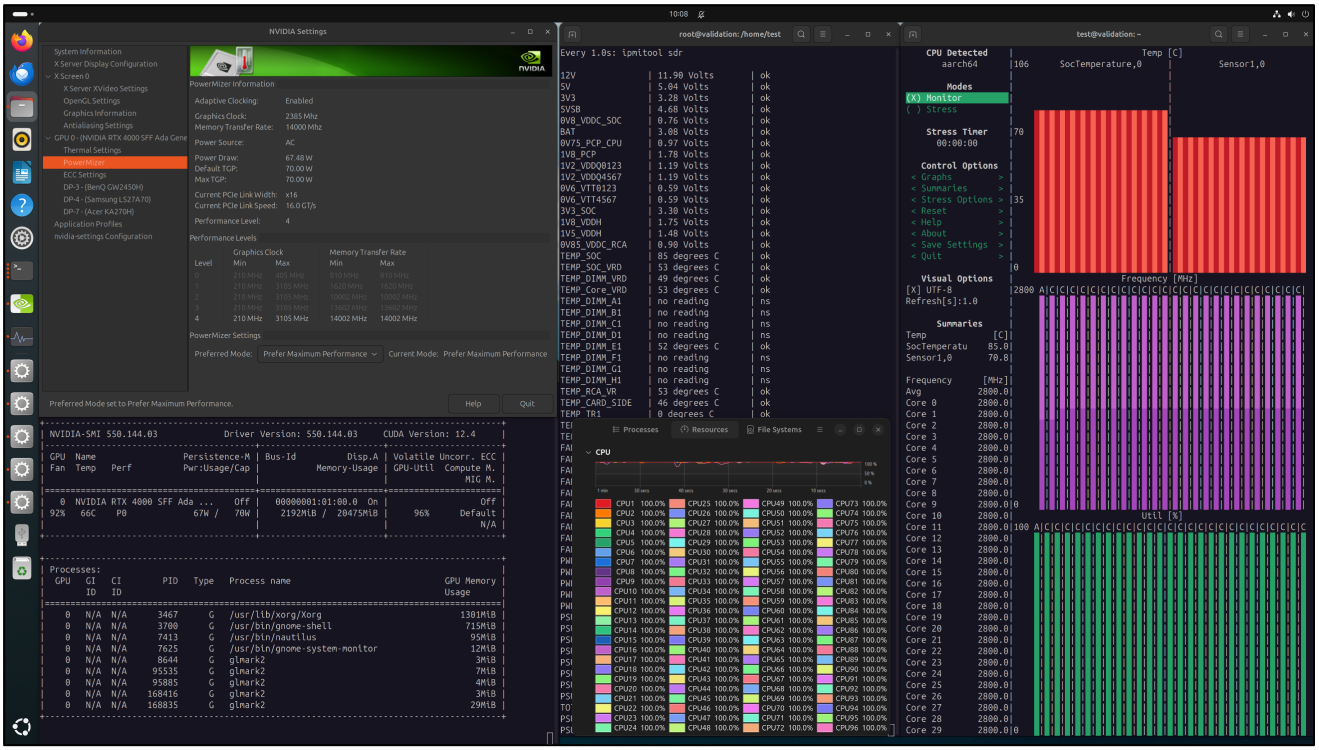
- Chamber in 0°C



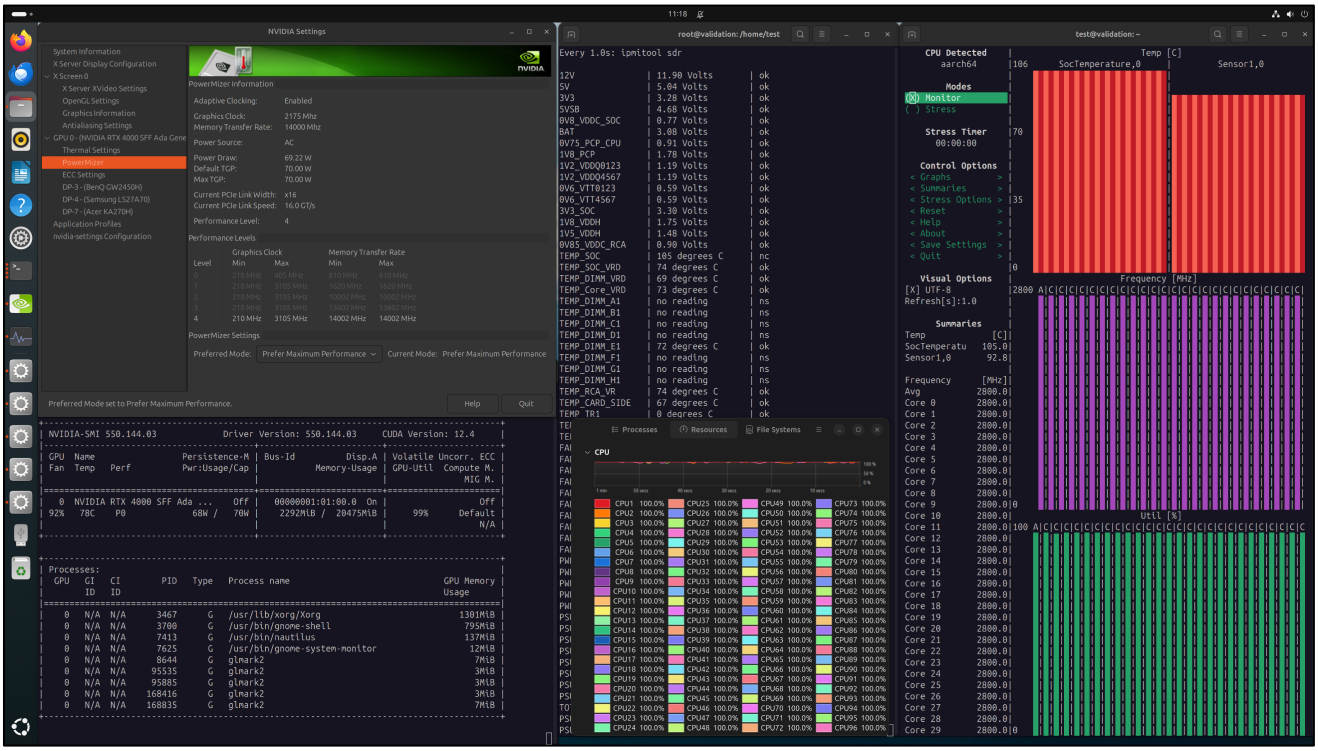
- Chamber in 25°C



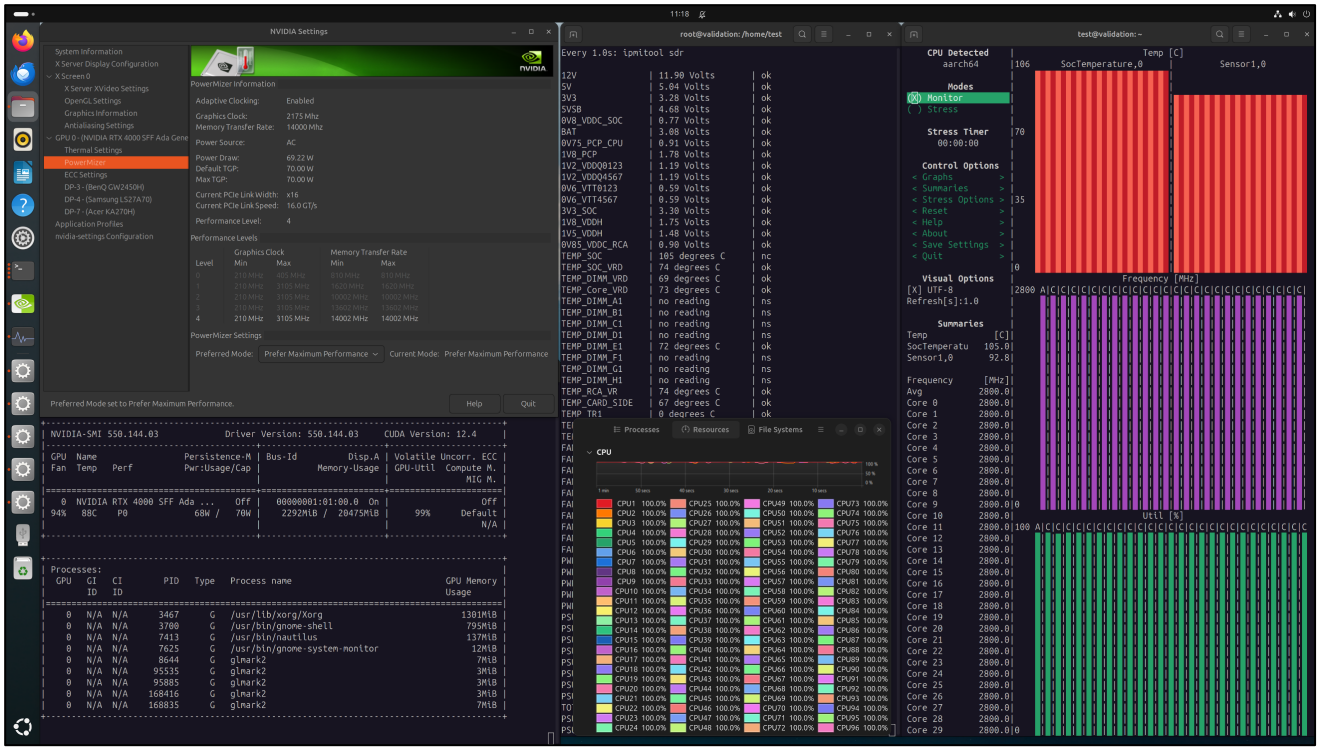
- Chamber in 40°C



- Chamber in 50°C



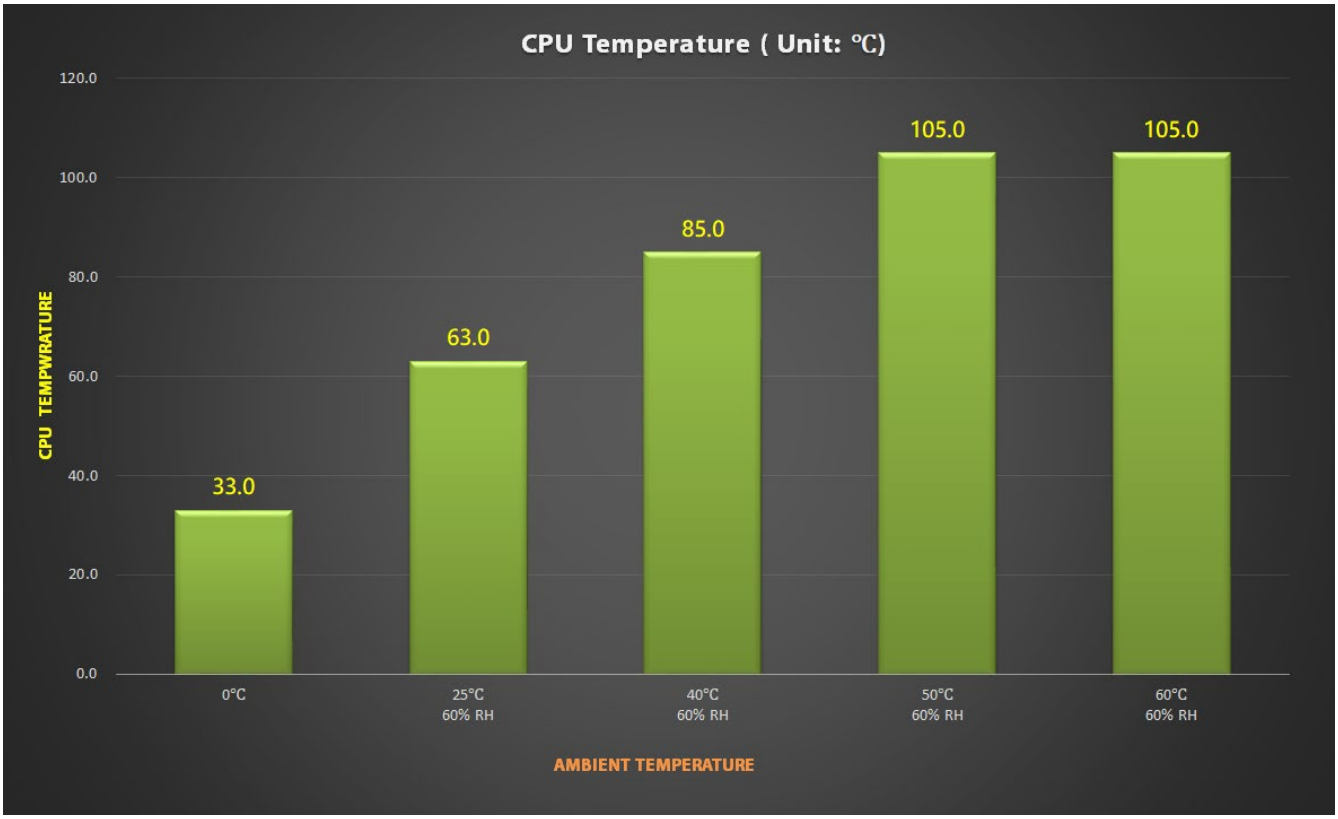
- Chamber in 60°C

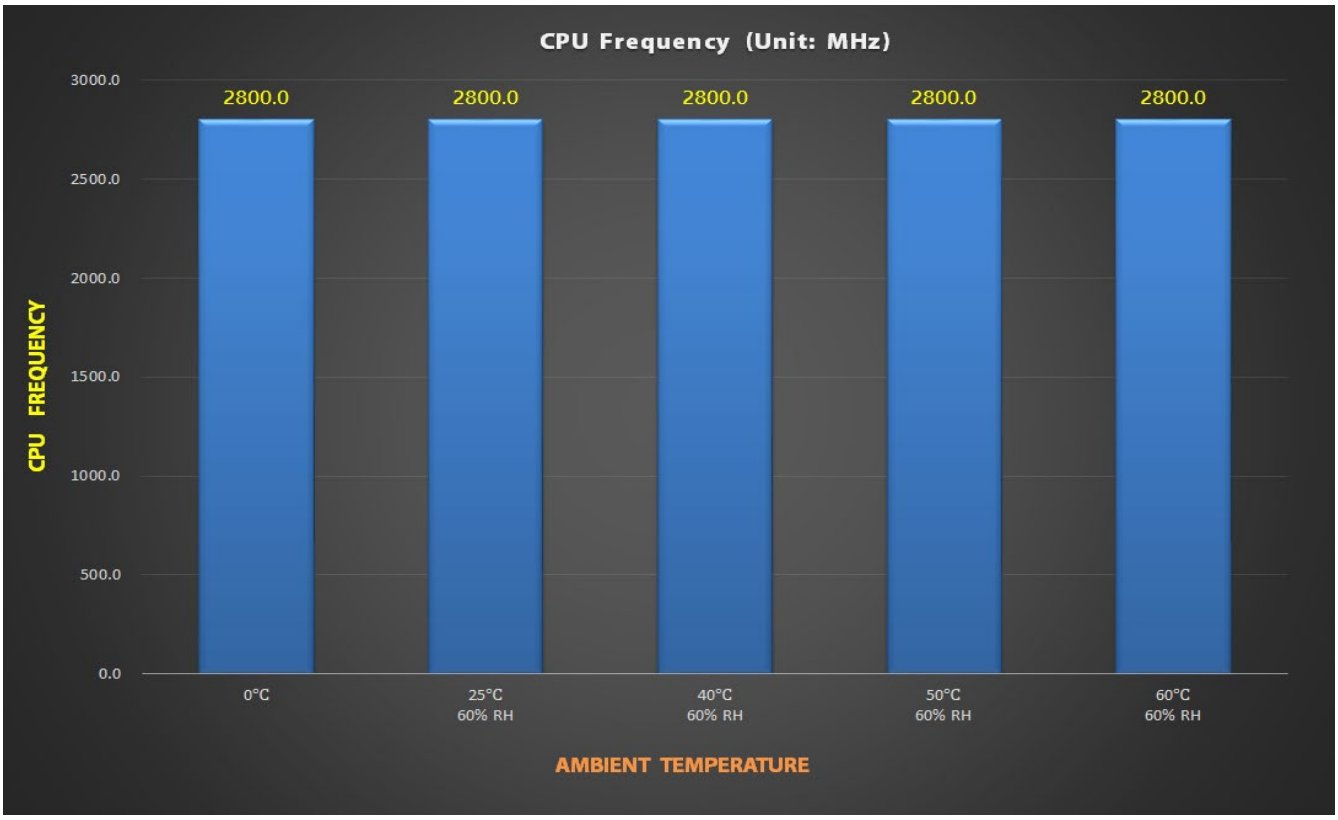


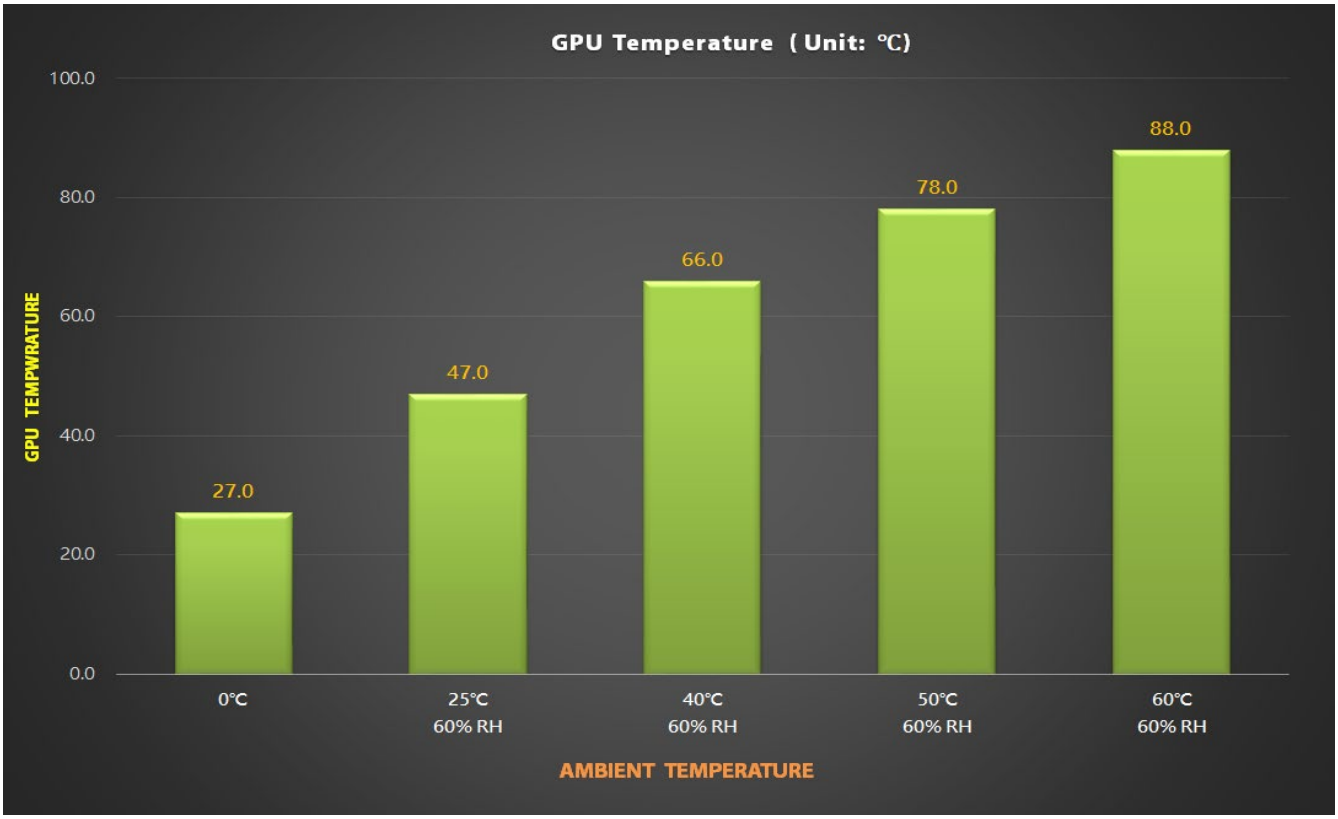
4. THERMAL TEST RESULT(0°C ~ +60°C)

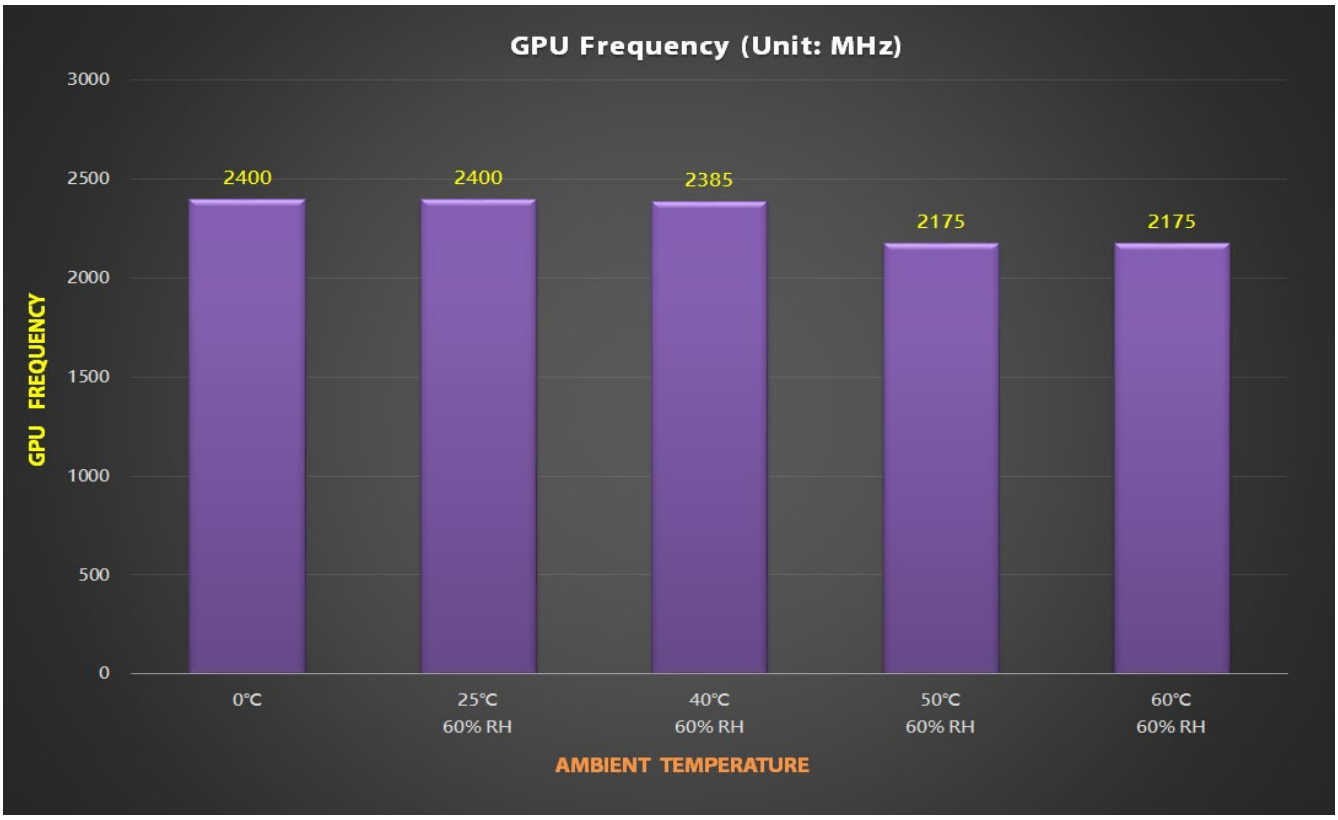
Temperature / Ambient Temp. / Frequency	0°C	25°C 60% RH	40°C 60% RH	50°C 60% RH	60°C 60% RH
CPU Cores Max Temperature (Unit: °C)	33.0	63.0	85.0	105.0	105.0
CPU Cores Frequency (Unit: MHz)	2800.0	2800.0	2800.0	2800.0	2800.0

Temperature / Ambient Temp. / Frequency	0°C	25°C 60% RH	40°C 60% RH	50°C 60% RH	60°C 60% RH
GPU Temperature (Unit: °C)	27.0	47.0	66.0	78.0	88.0
GPU Frequency (Unit: MHz)	2400.0	2400.0	2385.0	2175.0	2175.0


CPU Temperature (Unit: ℃)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
CPU TEMPWRATURE
33.0
63.0
85.0
105.0
105.0
0°C
25°C
60% RH
40°C
60% RH
50°C
60% RH
60°C
60% RH
AMBIENT TEMPERATURE

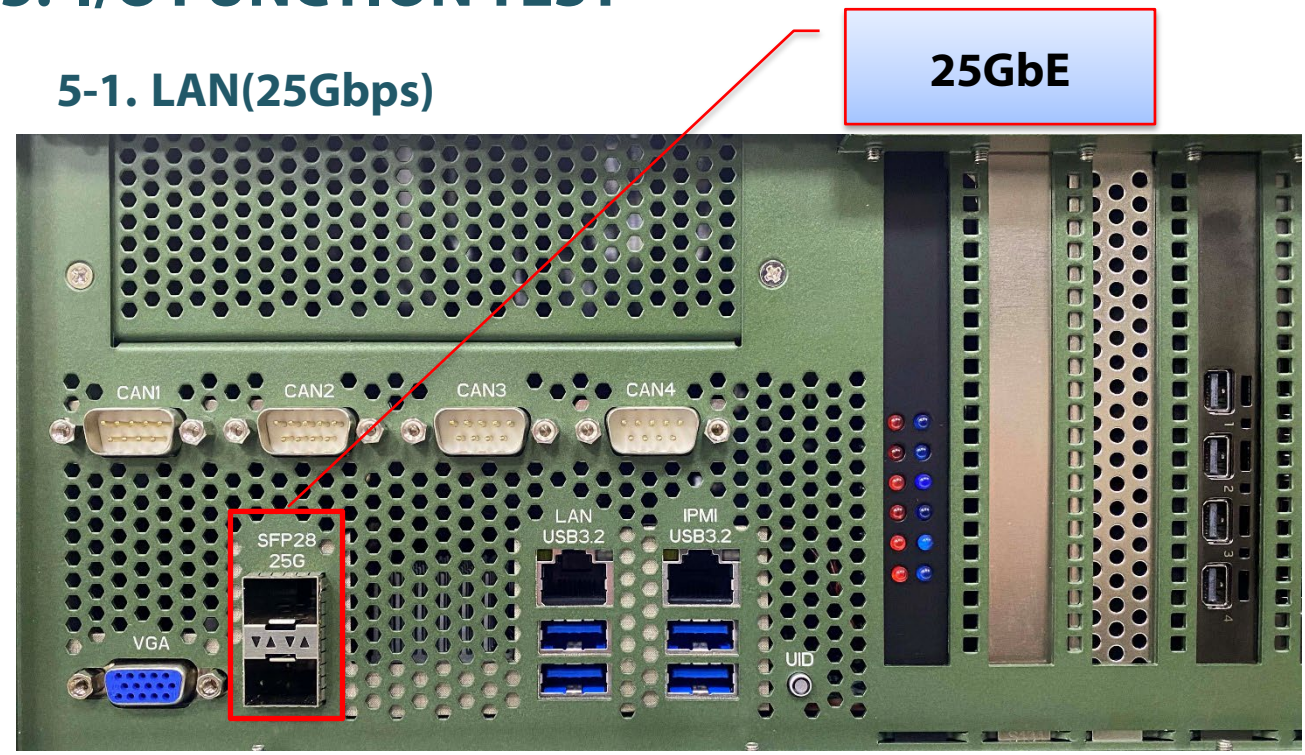

CPU Frequency (Unit: MHz)
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
CPU FREQUENCY
2800.0
2800.0
2800.0
2800.0
2800.0
0°C
25°C
60% RH
40°C
60% RH
50°C
60% RH
60°C
60% RH
AMBIENT TEMPERATURE


GPU Temperature (Unit: ℃)
100.0
80.0
60.0
40.0
20.0
0.0
GPU TEMPWRATURE
27.0
47.0
66.0
78.0
88.0
0℃
25℃
60% RH
40℃
60% RH
50℃
60% RH
60℃
60% RH
AMBIENT TEMPERATURE


GPU Frequency (Unit: MHz)
3000
2500
2000
1500
1000
500
0
GPU FREQUENCY
2400
2400
2385
2175
2175
0℃
25℃
60% RH
40℃
60% RH
50℃
60% RH
60℃
60% RH
AMBIENT TEMPERATURE

5. I/O FUNCTION TEST

5-1. LAN(25Gbps)



LAN SPEED

LAN Data-Packet

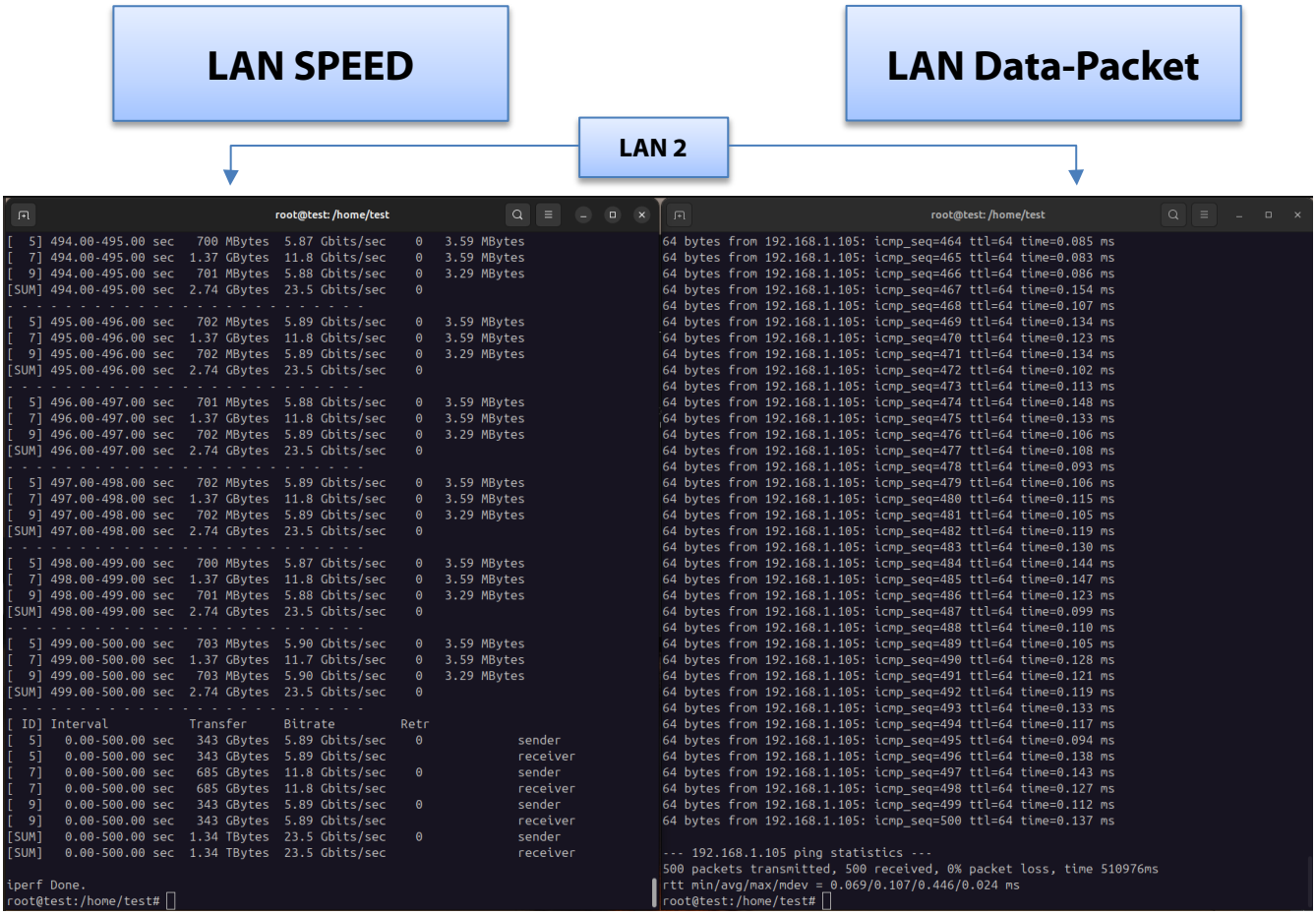
LAN 1

```
root@test: /home/test
[  5] 494.00-495.00 sec   702 MBytes  5.89 Gbits/sec    0   3.27 MBytes
[  7] 494.00-495.00 sec  1.37 GBytes  11.8 Gbits/sec    0   4.26 MBytes
[  9] 494.00-495.00 sec   702 MBytes  5.89 Gbits/sec    0   3.45 MBytes
[SUM] 494.00-495.00 sec  2.74 GBytes  23.5 Gbits/sec    0
- - - - - - - - - - - - - - - - - - - - - - - - -
[  5] 495.00-496.00 sec   702 MBytes  5.89 Gbits/sec    0   3.27 MBytes
[  7] 495.00-496.00 sec  1.37 GBytes  11.8 Gbits/sec    0   4.26 MBytes
[  9] 495.00-496.00 sec   702 MBytes  5.89 Gbits/sec    0   3.45 MBytes
[SUM] 495.00-496.00 sec  2.74 GBytes  23.5 Gbits/sec    0
- - - - - - - - - - - - - - - - - - - - - - - - -
[  5] 496.00-497.00 sec   701 MBytes  5.88 Gbits/sec    0   3.27 MBytes
[  7] 496.00-497.00 sec  1.37 GBytes  11.8 Gbits/sec    0   4.26 MBytes
[  9] 496.00-497.00 sec   701 MBytes  5.88 Gbits/sec    0   3.45 MBytes
[SUM] 496.00-497.00 sec  2.74 GBytes  23.5 Gbits/sec    0
- - - - - - - - - - - - - - - - - - - - - - - - -
[  5] 497.00-498.00 sec   702 MBytes  5.89 Gbits/sec    0   3.27 MBytes
[  7] 497.00-498.00 sec  1.37 GBytes  11.8 Gbits/sec    0   4.26 MBytes
[  9] 497.00-498.00 sec   702 MBytes  5.89 Gbits/sec    0   3.45 MBytes
[SUM] 497.00-498.00 sec  2.74 GBytes  23.5 Gbits/sec    0
- - - - - - - - - - - - - - - - - - - - - - - - -
[  5] 498.00-499.00 sec   702 MBytes  5.89 Gbits/sec    0   3.27 MBytes
[  7] 498.00-499.00 sec  1.37 GBytes  11.8 Gbits/sec    0   4.26 MBytes
[  9] 498.00-499.00 sec   702 MBytes  5.88 Gbits/sec    0   3.45 MBytes
[SUM] 498.00-499.00 sec  2.74 GBytes  23.5 Gbits/sec    0
- - - - - - - - - - - - - - - - - - - - - - - - -
[  5] 499.00-500.00 sec   702 MBytes  5.89 Gbits/sec    0   3.27 MBytes
[  7] 499.00-500.00 sec  1.37 GBytes  11.8 Gbits/sec    0   4.26 MBytes
[  9] 499.00-500.00 sec   701 MBytes  5.88 Gbits/sec    0   3.45 MBytes
[SUM] 499.00-500.00 sec  2.74 GBytes  23.5 Gbits/sec    0
- - - - - - - - - - - - - - - - - - - - - - - - -
[ ID] Interval           Transfer     Bitrate         Retr
[  5]   0.00-500.00 sec   343 GBytes  5.89 Gbits/sec    0             sender
[  5]   0.00-500.00 sec   343 GBytes  5.89 Gbits/sec                  receiver
[  7]   0.00-500.00 sec   685 GBytes  11.8 Gbits/sec    0             sender
[  7]   0.00-500.00 sec   685 GBytes  11.8 Gbits/sec                  receiver
[  9]   0.00-500.00 sec   343 GBytes  5.89 Gbits/sec    0             sender
[  9]   0.00-500.00 sec   343 GBytes  5.89 Gbits/sec                  receiver
[SUM]   0.00-500.00 sec  1.34 TBytes  23.5 Gbits/sec    0             sender
[SUM]   0.00-500.00 sec  1.34 TBytes  23.5 Gbits/sec                  receiver

iperf Done.
root@test:/home/test#
```

```
root@test: /home/test
64 bytes from 192.168.1.104: icmp_seq=464 ttl=64 time=0.128 ms
64 bytes from 192.168.1.104: icmp_seq=465 ttl=64 time=0.120 ms
64 bytes from 192.168.1.104: icmp_seq=466 ttl=64 time=0.104 ms
64 bytes from 192.168.1.104: icmp_seq=467 ttl=64 time=0.113 ms
64 bytes from 192.168.1.104: icmp_seq=468 ttl=64 time=0.102 ms
64 bytes from 192.168.1.104: icmp_seq=469 ttl=64 time=0.130 ms
64 bytes from 192.168.1.104: icmp_seq=470 ttl=64 time=0.097 ms
64 bytes from 192.168.1.104: icmp_seq=471 ttl=64 time=0.117 ms
64 bytes from 192.168.1.104: icmp_seq=472 ttl=64 time=0.092 ms
64 bytes from 192.168.1.104: icmp_seq=473 ttl=64 time=0.086 ms
64 bytes from 192.168.1.104: icmp_seq=474 ttl=64 time=0.109 ms
64 bytes from 192.168.1.104: icmp_seq=475 ttl=64 time=0.104 ms
64 bytes from 192.168.1.104: icmp_seq=476 ttl=64 time=0.085 ms
64 bytes from 192.168.1.104: icmp_seq=477 ttl=64 time=0.098 ms
64 bytes from 192.168.1.104: icmp_seq=478 ttl=64 time=0.082 ms
64 bytes from 192.168.1.104: icmp_seq=479 ttl=64 time=0.106 ms
64 bytes from 192.168.1.104: icmp_seq=480 ttl=64 time=0.097 ms
64 bytes from 192.168.1.104: icmp_seq=481 ttl=64 time=0.148 ms
64 bytes from 192.168.1.104: icmp_seq=482 ttl=64 time=0.110 ms
64 bytes from 192.168.1.104: icmp_seq=483 ttl=64 time=0.101 ms
64 bytes from 192.168.1.104: icmp_seq=484 ttl=64 time=0.110 ms
64 bytes from 192.168.1.104: icmp_seq=485 ttl=64 time=0.128 ms
64 bytes from 192.168.1.104: icmp_seq=486 ttl=64 time=0.094 ms
64 bytes from 192.168.1.104: icmp_seq=487 ttl=64 time=0.093 ms
64 bytes from 192.168.1.104: icmp_seq=488 ttl=64 time=0.106 ms
64 bytes from 192.168.1.104: icmp_seq=489 ttl=64 time=0.120 ms
64 bytes from 192.168.1.104: icmp_seq=490 ttl=64 time=0.107 ms
64 bytes from 192.168.1.104: icmp_seq=491 ttl=64 time=0.107 ms
64 bytes from 192.168.1.104: icmp_seq=492 ttl=64 time=0.118 ms
64 bytes from 192.168.1.104: icmp_seq=493 ttl=64 time=0.078 ms
64 bytes from 192.168.1.104: icmp_seq=494 ttl=64 time=0.136 ms
64 bytes from 192.168.1.104: icmp_seq=495 ttl=64 time=0.096 ms
64 bytes from 192.168.1.104: icmp_seq=496 ttl=64 time=0.133 ms
64 bytes from 192.168.1.104: icmp_seq=497 ttl=64 time=0.099 ms
64 bytes from 192.168.1.104: icmp_seq=498 ttl=64 time=0.097 ms
64 bytes from 192.168.1.104: icmp_seq=499 ttl=64 time=0.101 ms
64 bytes from 192.168.1.104: icmp_seq=500 ttl=64 time=0.078 ms

--- 192.168.1.104 ping statistics ---
500 packets transmitted, 500 received, 0% packet loss, time 510990ms
rtt min/avg/max/mdev = 0.065/0.112/0.451/0.028 ms
root@test:/home/test#
```

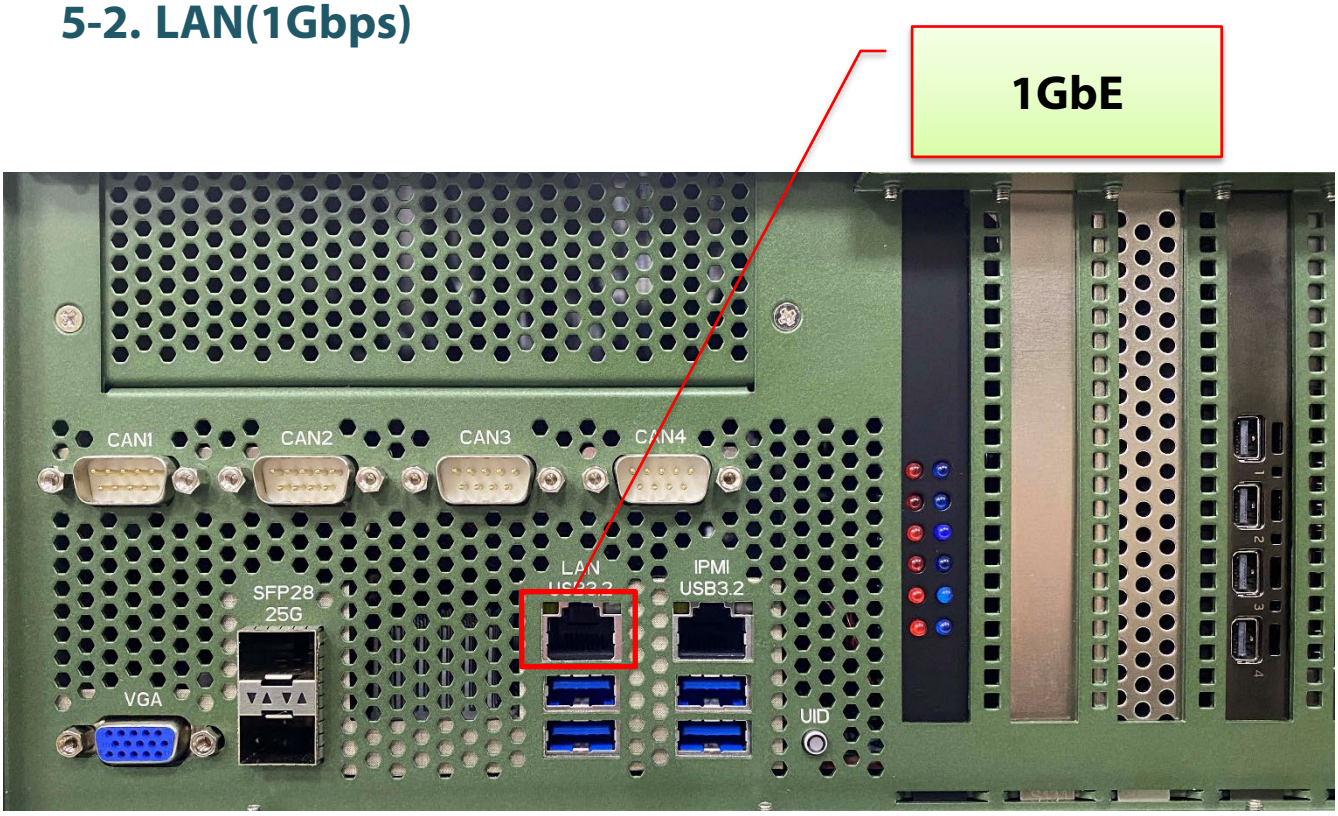
LAN Speed Test Result: Pass

LAN Data-Packet Test Result: 0 Lost (0% loss)



LAN Speed Test Result: Pass
LAN Data-Packet Test Result: 0 Lost (0% loss)

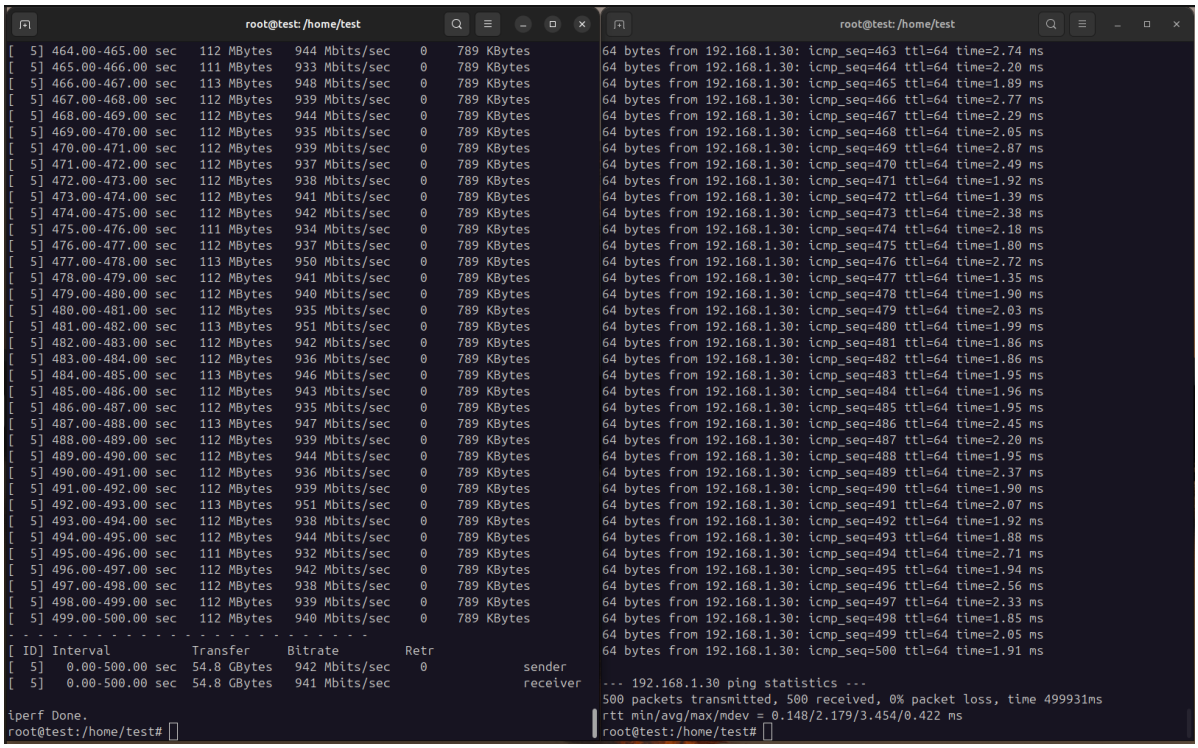
5-2. LAN(1Gbps)



LAN SPEED

LAN Data-Packet

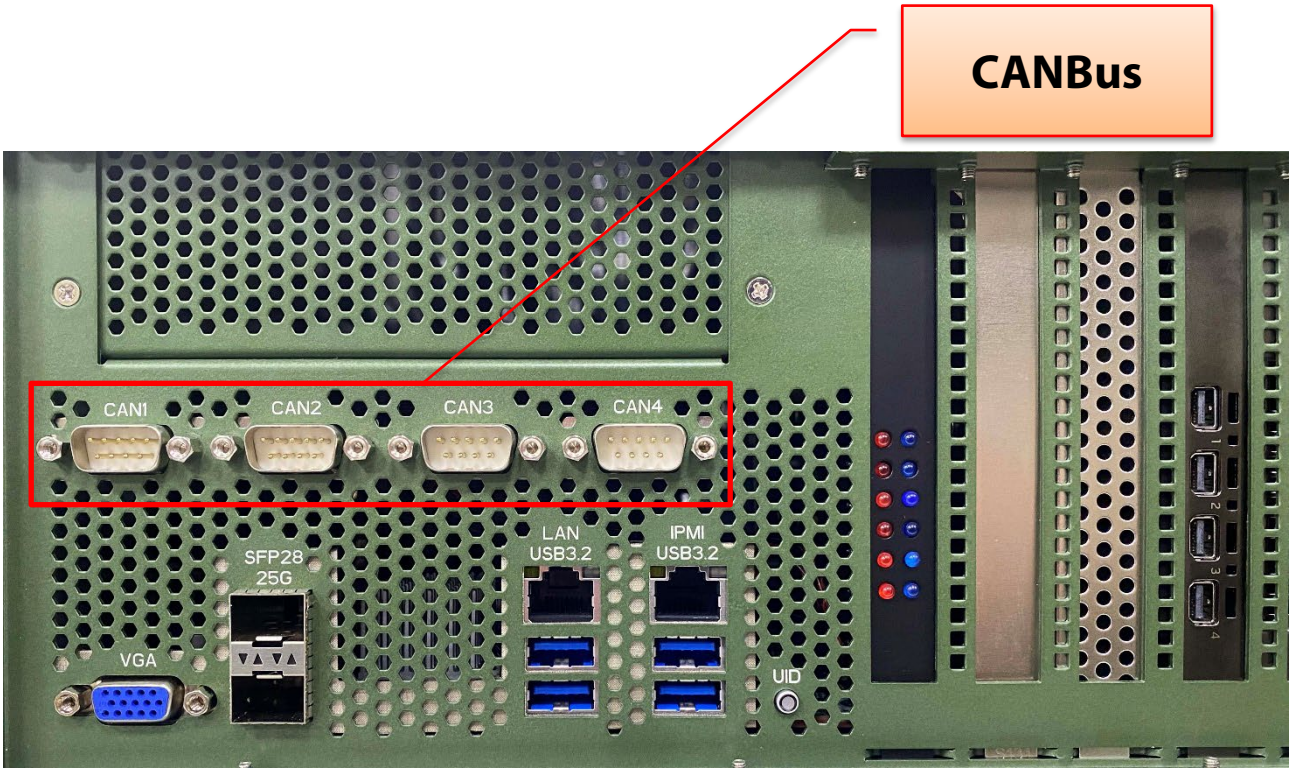
LAN 1

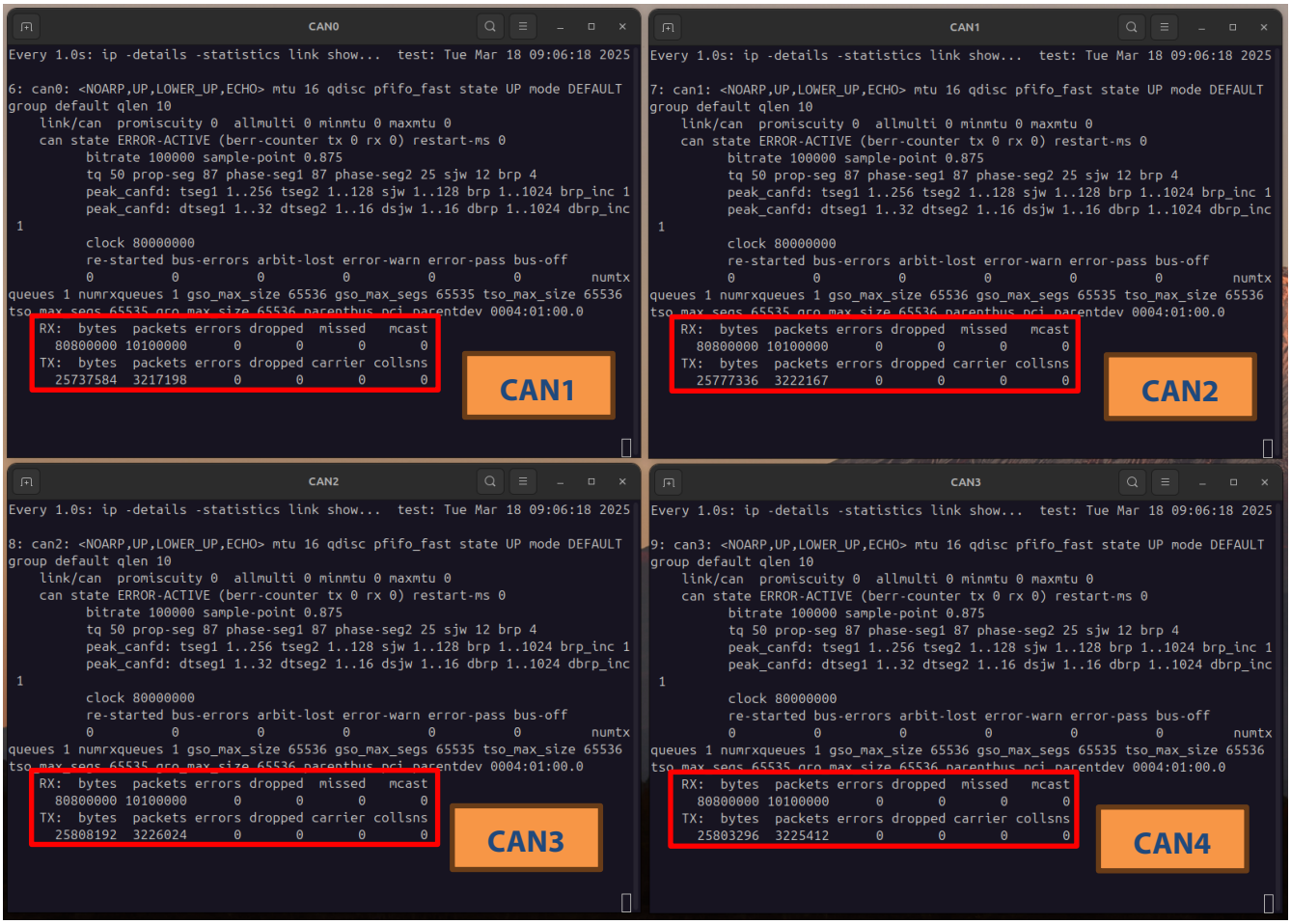


LAN Speed Test Result: Pass

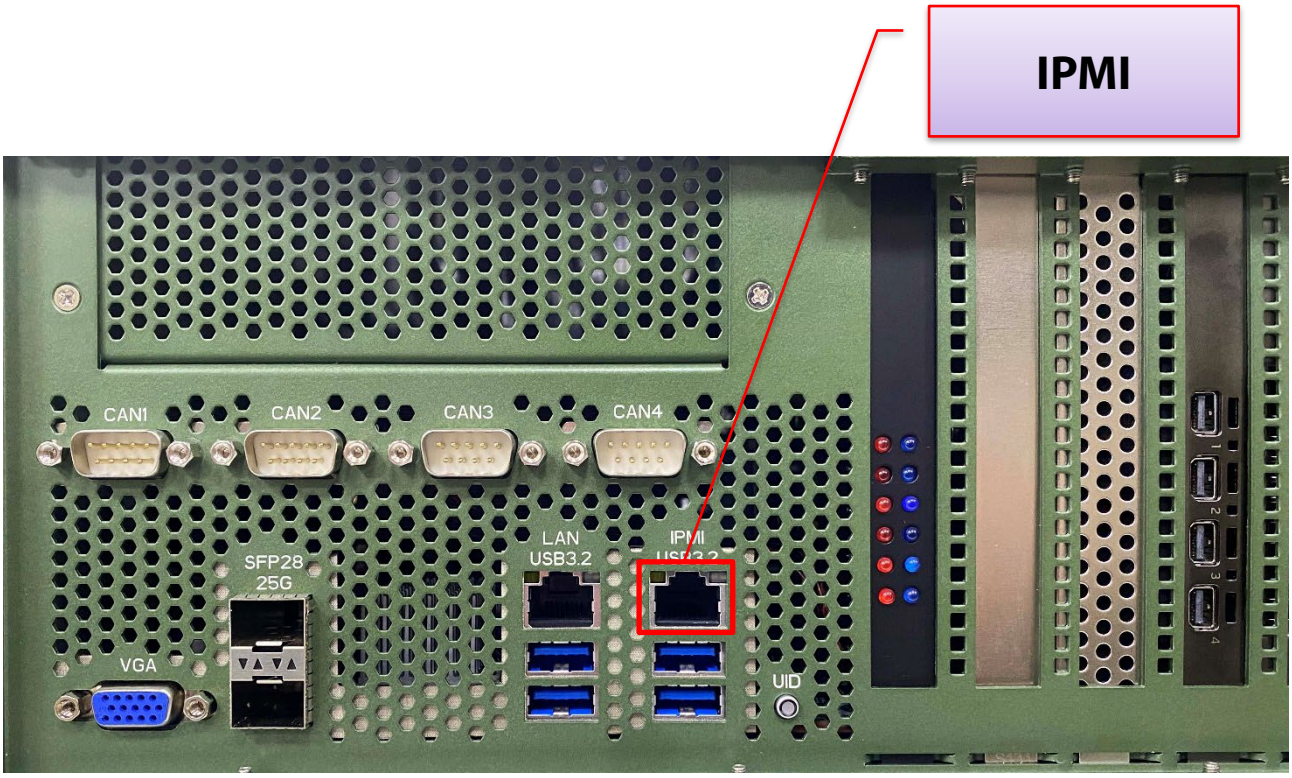
LAN Data-Packet Test Result: 0 Lost (0% loss)

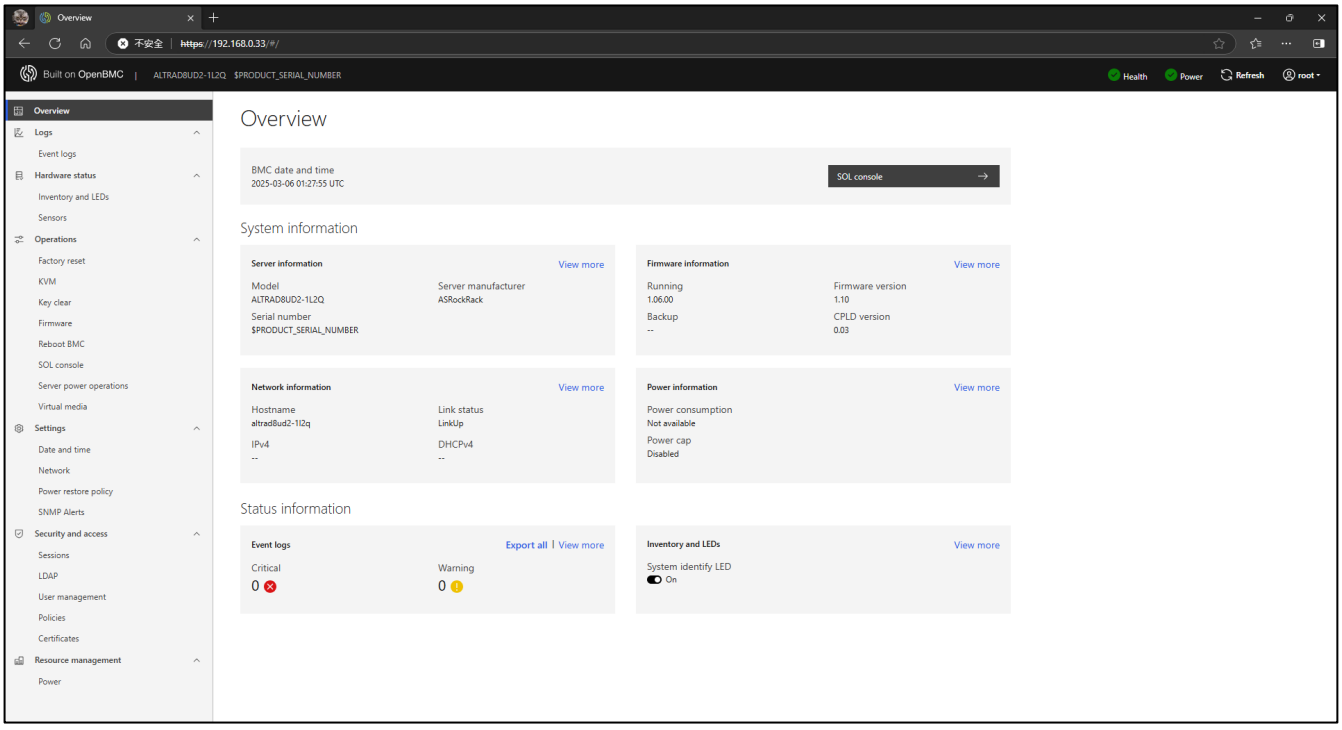
5-3. CANBus


CANBus
CAN1
CAN2
CAN3
CAN4
SFP28
25G
LAN
USB3.2
IPMI
USB3.2
VGA
UID

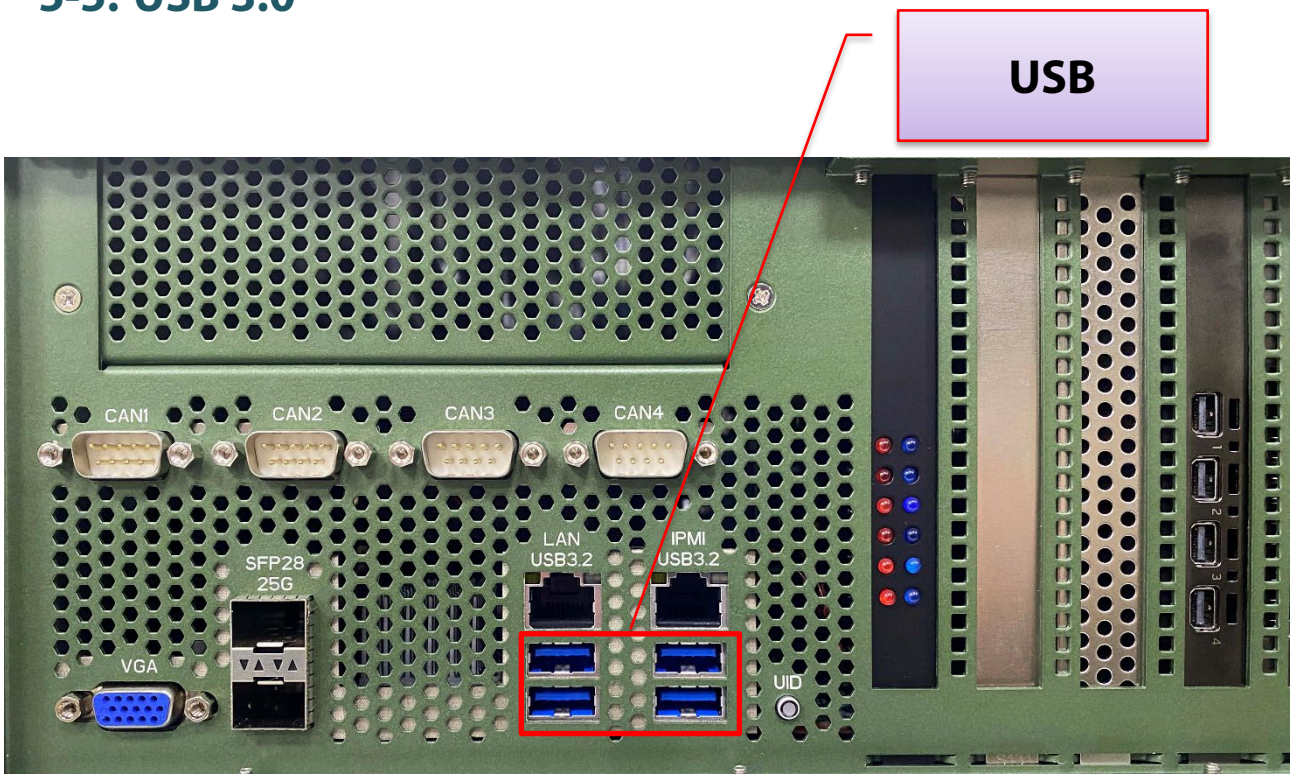

CAN0
Every 1.0s: ip -details -statistics link show... test: Tue Mar 18 09:06:18 2025
6: can0: <NOARP,UP,LOWER_UP,ECHO> mtu 16 qdisc pfifo_fast state UP mode DEFAULT group default qlen 10
link/can promiscuity 0 allmulti 0 minmtu 0 maxmtu 0
can state ERROR-ACTIVE (berr-counter tx 0 rx 0) restart-ms 0
bitrate 100000 sample-point 0.875
tq 50 prop-seg 87 phase-seg1 87 phase-seg2 25 sjw 12 brp 4
peak_canfd: tseg1 1..256 tseg2 1..128 sjw 1..128 brp 1..1024 brp_inc 1
peak_canfd: dtseg1 1..32 dtseg2 1..16 dsjw 1..16 dbrp 1..1024 dbrp_inc 1
clock 80000000
re-started bus-errors arbit-lost error-warn error-pass bus-off
0 0 0 0 0 0 numtx
queues 1 numrxqueues 1 gso_max_size 65536 gso_max_segs 65535 tso_max_size 65536
tso_max_segs 65535 gro_max_size 65536 parentbus pci parentdev 0004:01:00.0
RX: bytes packets errors dropped missed mcast
80800000 10100000 0 0 0 0
TX: bytes packets errors dropped carrier collsns
25737584 3217198 0 0 0 0
CAN1
CAN1
Every 1.0s: ip -details -statistics link show... test: Tue Mar 18 09:06:18 2025
7: can1: <NOARP,UP,LOWER_UP,ECHO> mtu 16 qdisc pfifo_fast state UP mode DEFAULT group default qlen 10
link/can promiscuity 0 allmulti 0 minmtu 0 maxmtu 0
can state ERROR-ACTIVE (berr-counter tx 0 rx 0) restart-ms 0
bitrate 100000 sample-point 0.875
tq 50 prop-seg 87 phase-seg1 87 phase-seg2 25 sjw 12 brp 4
peak_canfd: tseg1 1..256 tseg2 1..128 sjw 1..128 brp 1..1024 brp_inc 1
peak_canfd: dtseg1 1..32 dtseg2 1..16 dsjw 1..16 dbrp 1..1024 dbrp_inc 1
clock 80000000
re-started bus-errors arbit-lost error-warn error-pass bus-off
0 0 0 0 0 0 numtx
queues 1 numrxqueues 1 gso_max_size 65536 gso_max_segs 65535 tso_max_size 65536
tso_max_segs 65535 gro_max_size 65536 parentbus pci parentdev 0004:01:00.0
RX: bytes packets errors dropped missed mcast
80800000 10100000 0 0 0 0
TX: bytes packets errors dropped carrier collsns
25777336 3222167 0 0 0 0
CAN2
CAN2
Every 1.0s: ip -details -statistics link show... test: Tue Mar 18 09:06:18 2025
8: can2: <NOARP,UP,LOWER_UP,ECHO> mtu 16 qdisc pfifo_fast state UP mode DEFAULT group default qlen 10
link/can promiscuity 0 allmulti 0 minmtu 0 maxmtu 0
can state ERROR-ACTIVE (berr-counter tx 0 rx 0) restart-ms 0
bitrate 100000 sample-point 0.875
tq 50 prop-seg 87 phase-seg1 87 phase-seg2 25 sjw 12 brp 4
peak_canfd: tseg1 1..256 tseg2 1..128 sjw 1..128 brp 1..1024 brp_inc 1
peak_canfd: dtseg1 1..32 dtseg2 1..16 dsjw 1..16 dbrp 1..1024 dbrp_inc 1
clock 80000000
re-started bus-errors arbit-lost error-warn error-pass bus-off
0 0 0 0 0 0 numtx
queues 1 numrxqueues 1 gso_max_size 65536 gso_max_segs 65535 tso_max_size 65536
tso_max_segs 65535 gro_max_size 65536 parentbus pci parentdev 0004:01:00.0
RX: bytes packets errors dropped missed mcast
80800000 10100000 0 0 0 0
TX: bytes packets errors dropped carrier collsns
25808192 3226024 0 0 0 0
CAN3
CAN3
Every 1.0s: ip -details -statistics link show... test: Tue Mar 18 09:06:18 2025
9: can3: <NOARP,UP,LOWER_UP,ECHO> mtu 16 qdisc pfifo_fast state UP mode DEFAULT group default qlen 10
link/can promiscuity 0 allmulti 0 minmtu 0 maxmtu 0
can state ERROR-ACTIVE (berr-counter tx 0 rx 0) restart-ms 0
bitrate 100000 sample-point 0.875
tq 50 prop-seg 87 phase-seg1 87 phase-seg2 25 sjw 12 brp 4
peak_canfd: tseg1 1..256 tseg2 1..128 sjw 1..128 brp 1..1024 brp_inc 1
peak_canfd: dtseg1 1..32 dtseg2 1..16 dsjw 1..16 dbrp 1..1024 dbrp_inc 1
clock 80000000
re-started bus-errors arbit-lost error-warn error-pass bus-off
0 0 0 0 0 0 numtx
queues 1 numrxqueues 1 gso_max_size 65536 gso_max_segs 65535 tso_max_size 65536
tso_max_segs 65535 gro_max_size 65536 parentbus pci parentdev 0004:01:00.0
RX: bytes packets errors dropped missed mcast
80800000 10100000 0 0 0 0
TX: bytes packets errors dropped carrier collsns
25803296 3225412 0 0 0 0
CAN4

5-4. IPMI Port

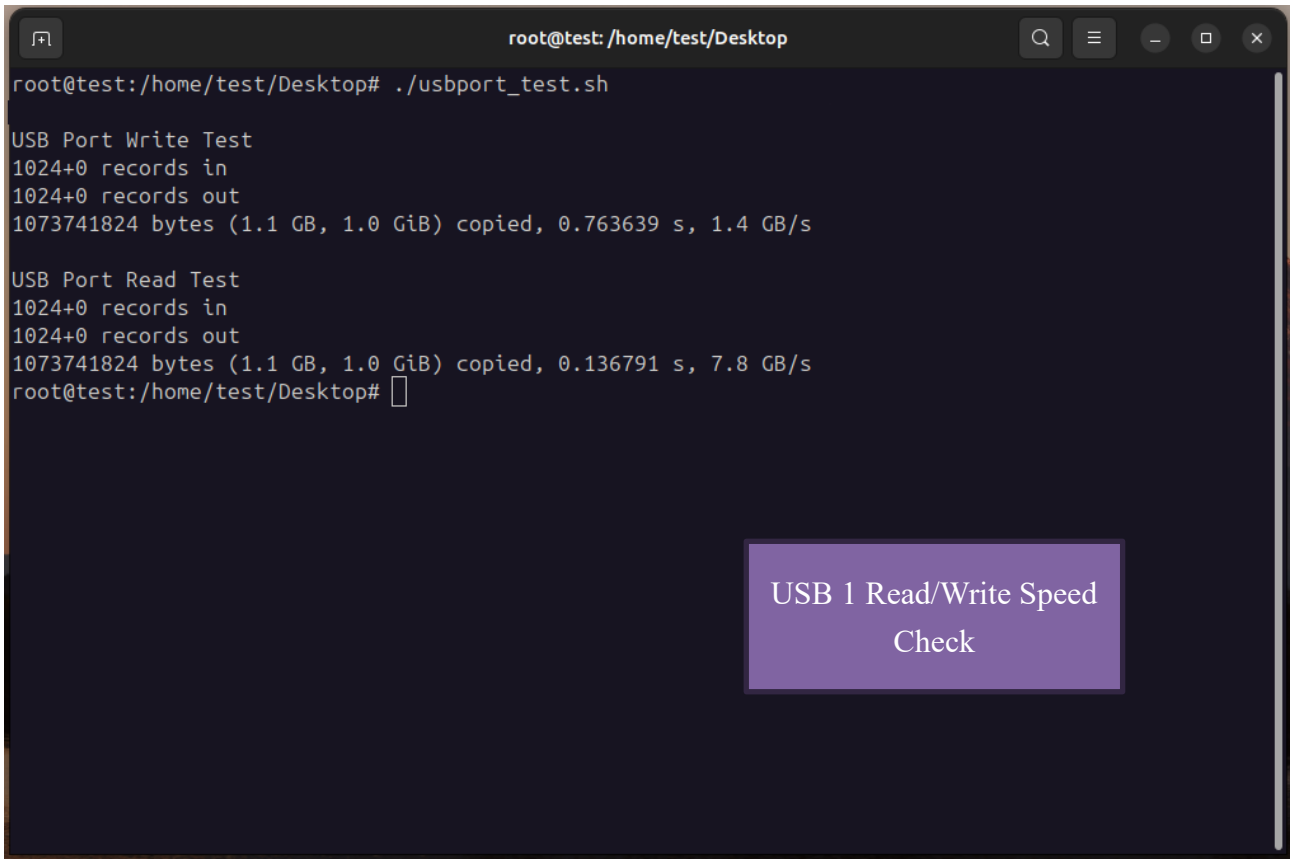

IPMI
CAN1
CAN2
CAN3
CAN4
SFP28
25G
LAN
USB3.2
VGA
UID

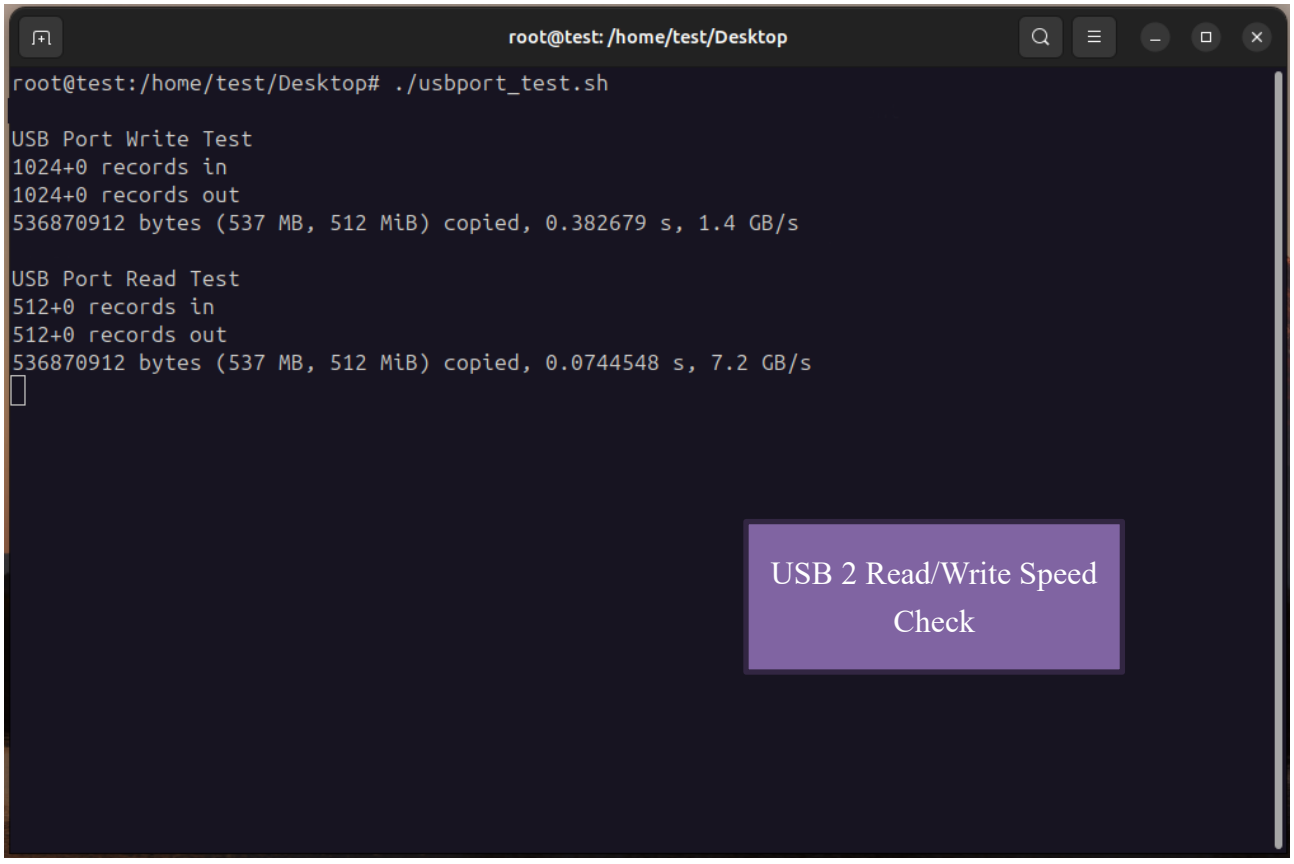

Overview
https://192.168.0.33/#/
Built on OpenBMC
ALTRAD8UD2-1L2Q $PRODUCT_SERIAL_NUMBER
Health
Power
Refresh
root
Overview
Logs
Event logs
Hardware status
Inventory and LEDs
Sensors
Operations
Factory reset
KVM
Key clear
Firmware
Reboot BMC
SOL console
Server power operations
Virtual media
Settings
Date and time
Network
Power restore policy
SNMP Alerts
Security and access
Sessions
LDAP
User management
Policies
Certificates
Resource management
Power
Overview
BMC date and time
2025-03-06 01:27:55 UTC
SOL console
System information
Server information
View more
Model
ALTRAD8UD2-1L2Q
Server manufacturer
ASRockRack
Serial number
$PRODUCT_SERIAL_NUMBER
Firmware information
View more
Running
1.06.00
Firmware version
1.10
Backup
--
CPLD version
0.03
Network information
View more
Hostname
altrad8ud2-1l2q
Link status
LinkUp
IPv4
--
DHCPv4
--
Power information
View more
Power consumption
Not available
Power cap
Disabled
Status information
Event logs
Export all | View more
Critical
0
Warning
0
Inventory and LEDs
View more
System identify LED
On

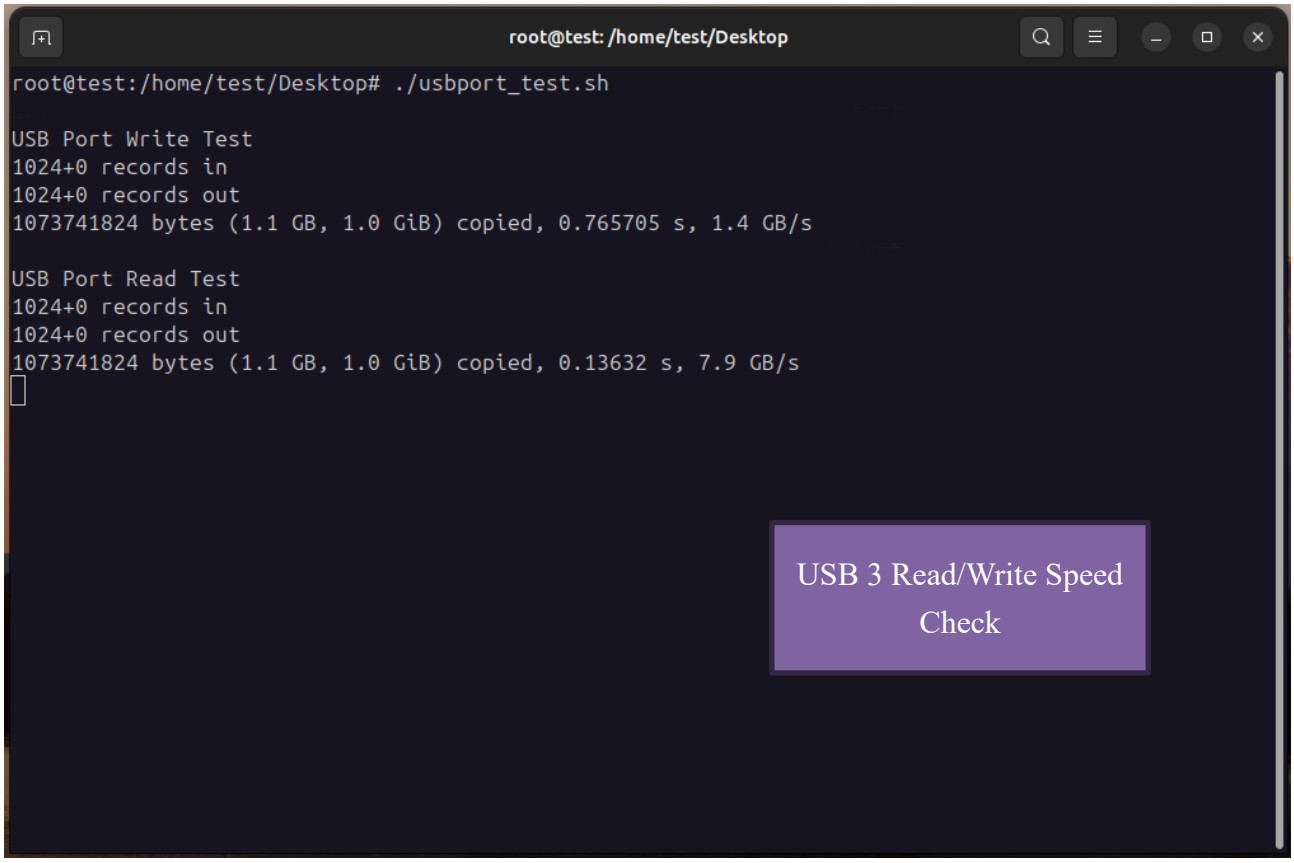
5-5. USB 3.0

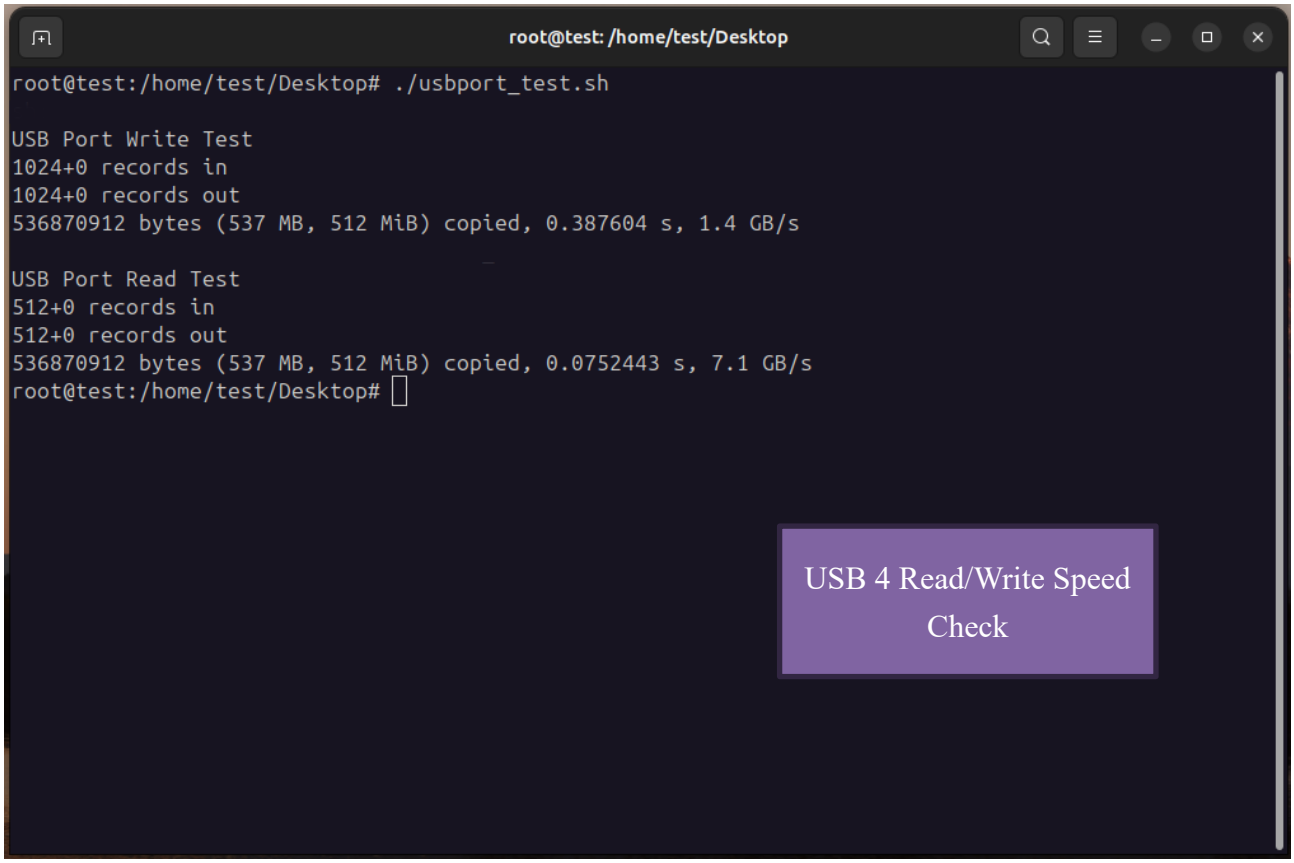



```
root@test: /home/test
        ID 174c:2074 ASMedia Technology Inc. ASM1074 High-Speed hub
        |__ Port 003: Dev 004, If 0, Class=Hub, Driver=hub/4p, 480M
            ID 05e3:0610 Genesys Logic, Inc. Hub
            |__ Port 001: Dev 010, If 0, Class=Human Interface Device, Driver=usbhid, 1.5M
                ID 046d:c05a Logitech, Inc. M90/M100 Optical Mouse
            |__ Port 002: Dev 011, If 0, Class=Human Interface Device, Driver=usbhid, 1.5M
                ID 04d9:1702 Holtek Semiconductor, Inc. Keyboard LKS02
            |__ Port 002: Dev 011, If 1, Class=Human Interface Device, Driver=usbhid, 1.5M
                ID 04d9:1702 Holtek Semiconductor, Inc. Keyboard LKS02
    |__ Port 002: Dev 003, If 0, Class=Hub, Driver=hub/4p, 480M
        ID 174c:2074 ASMedia Technology Inc. ASM1074 High-Speed hub
        |__ Port 003: Dev 005, If 0, Class=Hub, Driver=hub/5p, 480M
            ID 1d6b:0107 Linux Foundation
            |__ Port 001: Dev 007, If 0, Class=Communications, Driver=cdc_ether, 480M
                ID 26ce:00a0
            |__ Port 001: Dev 007, If 1, Class=CDC Data, Driver=cdc_ether, 480M
                ID 26ce:00a0
/:  Bus 002.Port 001: Dev 001, Class=root_hub, Driver=xhci_hcd/2p, 10000M
    ID 1d6b:0003 Linux Foundation 3.0 root hub
    |__ Port 001: Dev 002, If 0, Class=Hub, Driver=hub/4p, 5000M
        ID 174c:3074 ASMedia Technology Inc. ASM1074 SuperSpeed hub
        |__ Port 001: Dev 005, If 0, Class=Mass Storage, Driver=uas, 5000M
            ID 0bda:a03a Realtek Semiconductor Corp.
        |__ Port 003: Dev 004, If 0, Class=Hub, Driver=hub/4p, 5000M
            ID 05e3:0626 Genesys Logic, Inc. Hub
    |__ Port 002: Dev 003, If 0, Class=Hub, Driver=hub/4p, 5000M
        ID 174c:3074 ASMedia Technology Inc. ASM1074 SuperSpeed hub
root@test:/home/test#
```

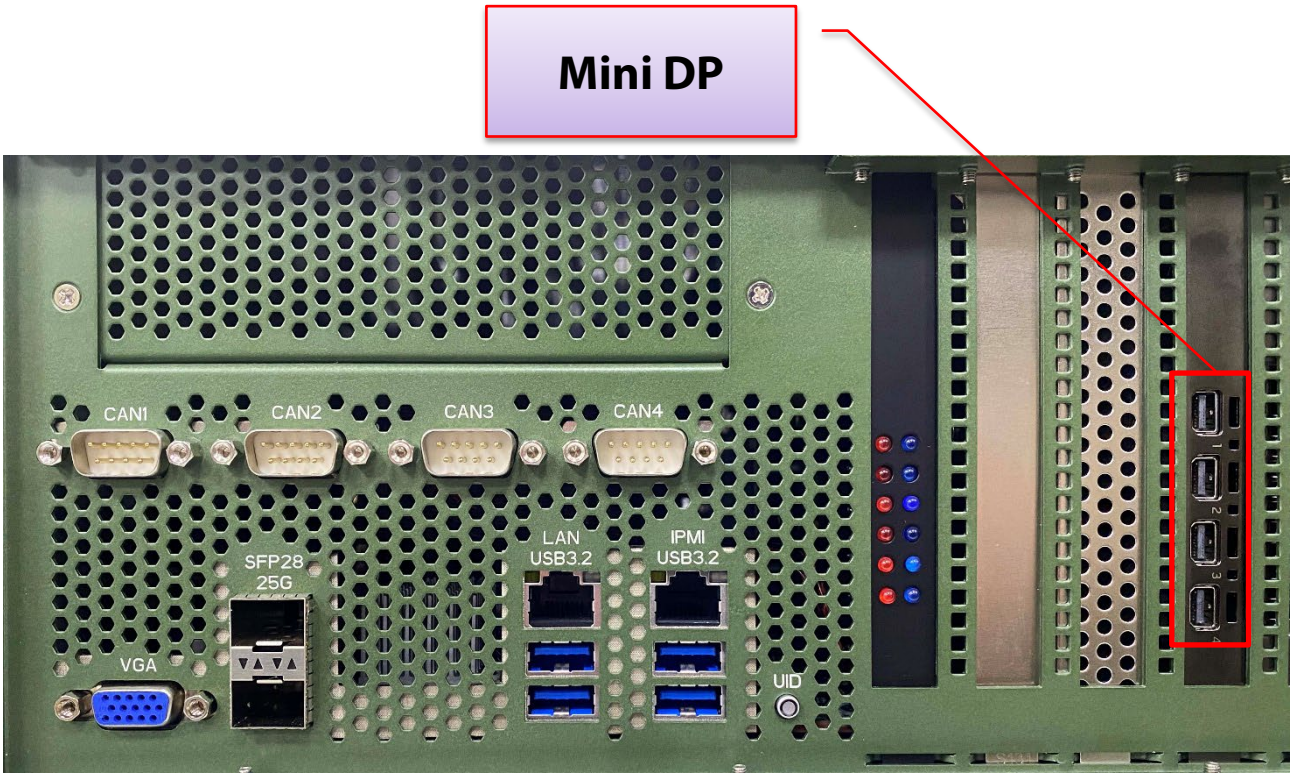

root@test: /home/test/Desktop
root@test:/home/test/Desktop# ./usbport_test.sh
USB Port Write Test
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 0.763639 s, 1.4 GB/s
USB Port Read Test
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 0.136791 s, 7.8 GB/s
root@test:/home/test/Desktop#
USB 1 Read/Write Speed Check

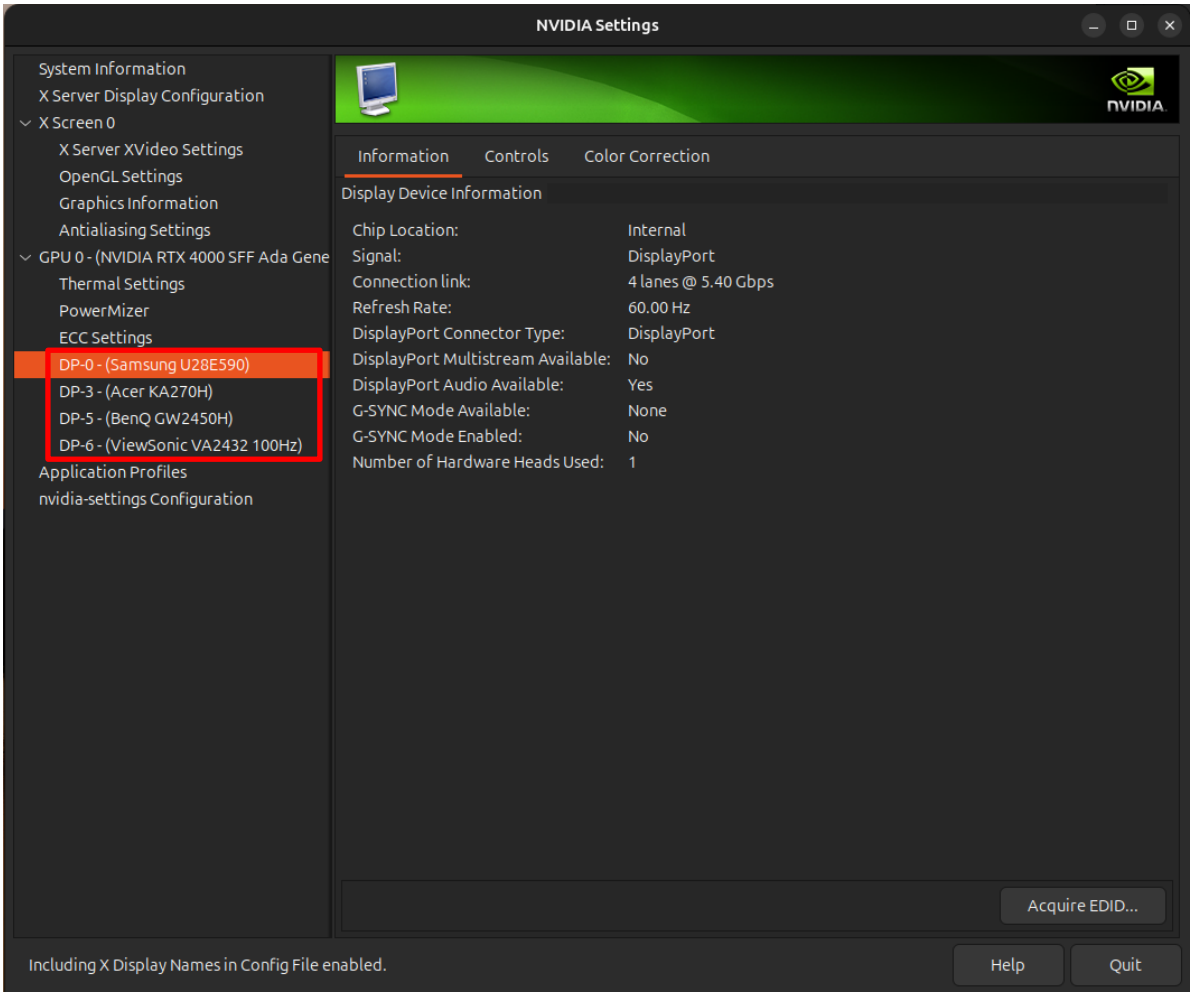

root@test: /home/test/Desktop
root@test:/home/test/Desktop# ./usbport_test.sh
USB Port Write Test
1024+0 records in
1024+0 records out
536870912 bytes (537 MB, 512 MiB) copied, 0.382679 s, 1.4 GB/s
USB Port Read Test
512+0 records in
512+0 records out
536870912 bytes (537 MB, 512 MiB) copied, 0.0744548 s, 7.2 GB/s
USB 2 Read/Write Speed Check


root@test: /home/test/Desktop
root@test:/home/test/Desktop# ./usbport_test.sh
USB Port Write Test
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 0.765705 s, 1.4 GB/s
USB Port Read Test
1024+0 records in
1024+0 records out
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 0.13632 s, 7.9 GB/s
USB 3 Read/Write Speed Check

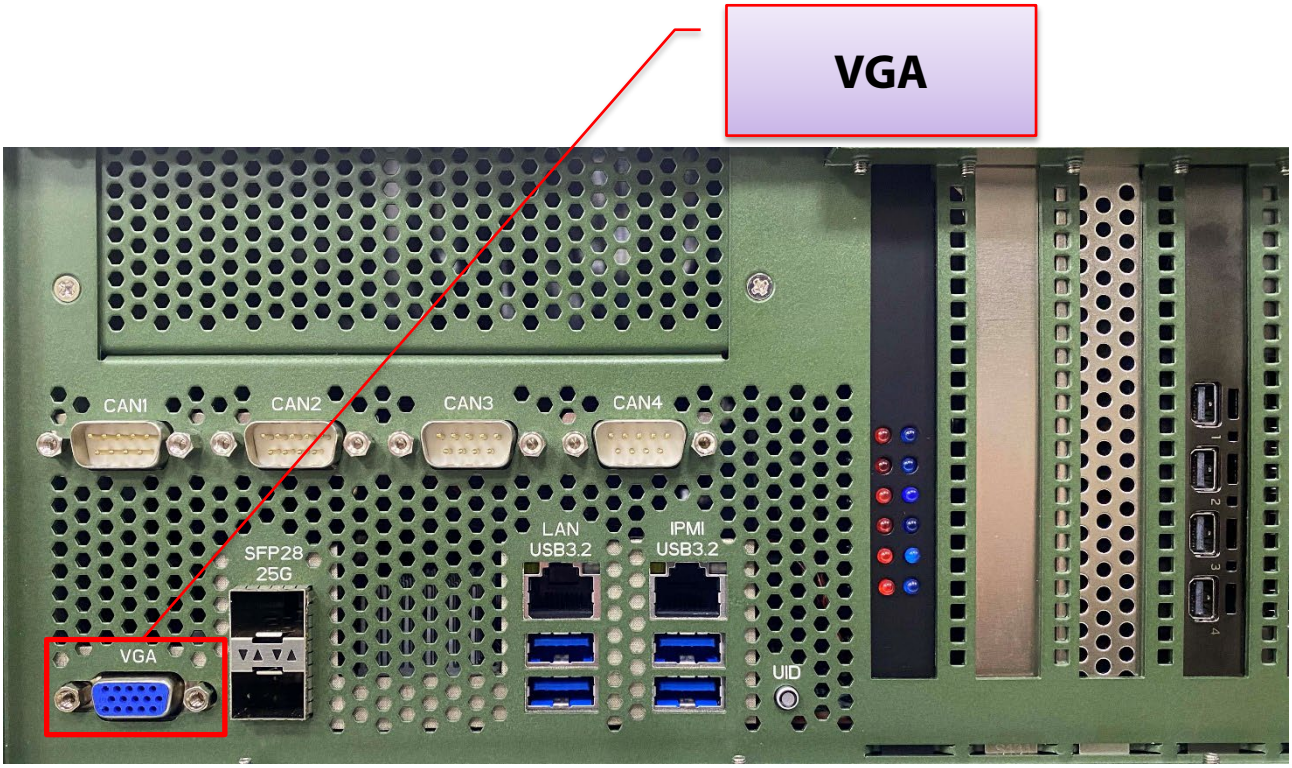

root@test: /home/test/Desktop
root@test:/home/test/Desktop# ./usbport_test.sh
USB Port Write Test
1024+0 records in
1024+0 records out
536870912 bytes (537 MB, 512 MiB) copied, 0.387604 s, 1.4 GB/s
USB Port Read Test
512+0 records in
512+0 records out
536870912 bytes (537 MB, 512 MiB) copied, 0.0752443 s, 7.1 GB/s
root@test:/home/test/Desktop#
USB 4 Read/Write Speed Check

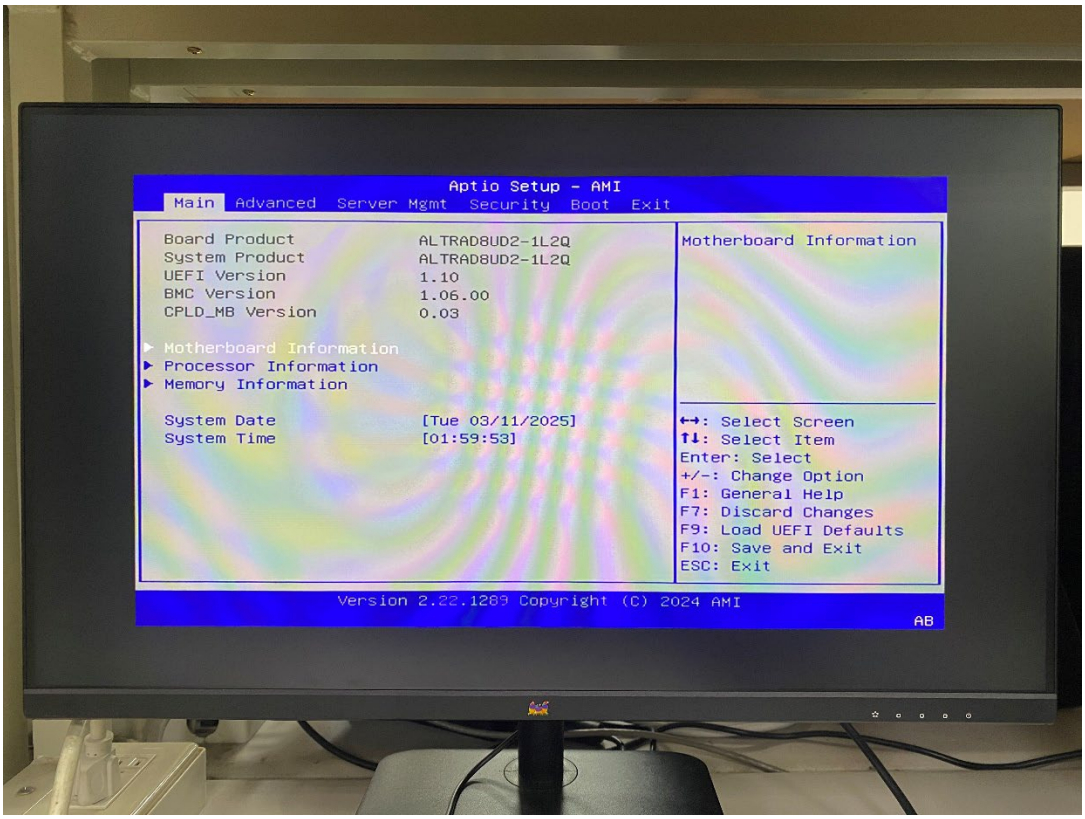
5-6. Mini DP


Mini DP
CAN1
CAN2
CAN3
CAN4
SFP28
25G
LAN
USB3.2
IPMI
USB3.2
VGA
UID


NVIDIA Settings
System Information
X Server Display Configuration
X Screen 0
X Server XVideo Settings
OpenGL Settings
Graphics Information
Antialiasing Settings
GPU 0 - (NVIDIA RTX 4000 SFF Ada Gene
Thermal Settings
PowerMizer
ECC Settings
DP-0 - (Samsung U28E590)
DP-3 - (Acer KA270H)
DP-5 - (BenQ GW2450H)
DP-6 - (ViewSonic VA2432 100Hz)
Application Profiles
nvidia-settings Configuration
NVIDIA
Information
Controls
Color Correction
Display Device Information
Chip Location: Internal
Signal: DisplayPort
Connection link: 4 lanes @ 5.40 Gbps
Refresh Rate: 60.00 Hz
DisplayPort Connector Type: DisplayPort
DisplayPort Multistream Available: No
DisplayPort Audio Available: Yes
G-SYNC Mode Available: None
G-SYNC Mode Enabled: No
Number of Hardware Heads Used: 1
Acquire EDID...
Including X Display Names in Config File enabled.
Help
Quit

5-7. VGA


VGA
CAN1
CAN2
CAN3
CAN4
SFP28
25G
LAN
USB3.2
IPMI
USB3.2
VGA
UID


Aptio Setup – AMI
Main Advanced Server Mgmt Security Boot Exit
Board Product ALTRAD8UD2-1L2Q
System Product ALTRAD8UD2-1L2Q
UEFI Version 1.10
BMC Version 1.06.00
CPLD_MB Version 0.03
Motherboard Information
Processor Information
Memory Information
System Date [Tue 03/11/2025]
System Time [01:59:53]
Motherboard Information
↔: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Option
F1: General Help
F7: Discard Changes
F9: Load UEFI Defaults
F10: Save and Exit
ESC: Exit
Version 2.22.1289 Copyright (C) 2024 AMI
AB

-----END-----