



MINERVA

PCIe 4.0 SlimSAS 16i(SFF-8654), 100cm cable

Performance & Burn In Test Rev 1.0

Table of Contents

1. Overview

2. Performance Measurement Tools and Results

2.1 Test Platform

2.2 Test target and ASUS ReForce RTX 3080

2.3 Install Hardware

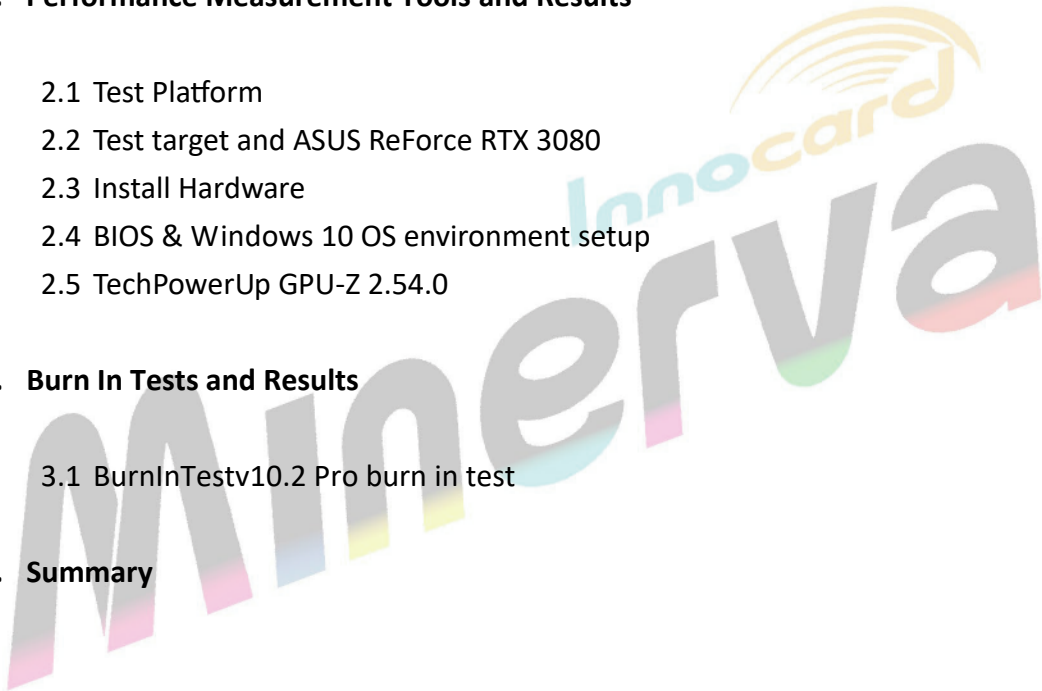
2.4 BIOS & Windows 10 OS environment setup

2.5 TechPowerUp GPU-Z 2.54.0

3. Burn In Tests and Results

3.1 BurnInTestv10.2 Pro burn in test

4. Summary



SFF-8554 PCIe 4.0 High Speed cable

1. Overview

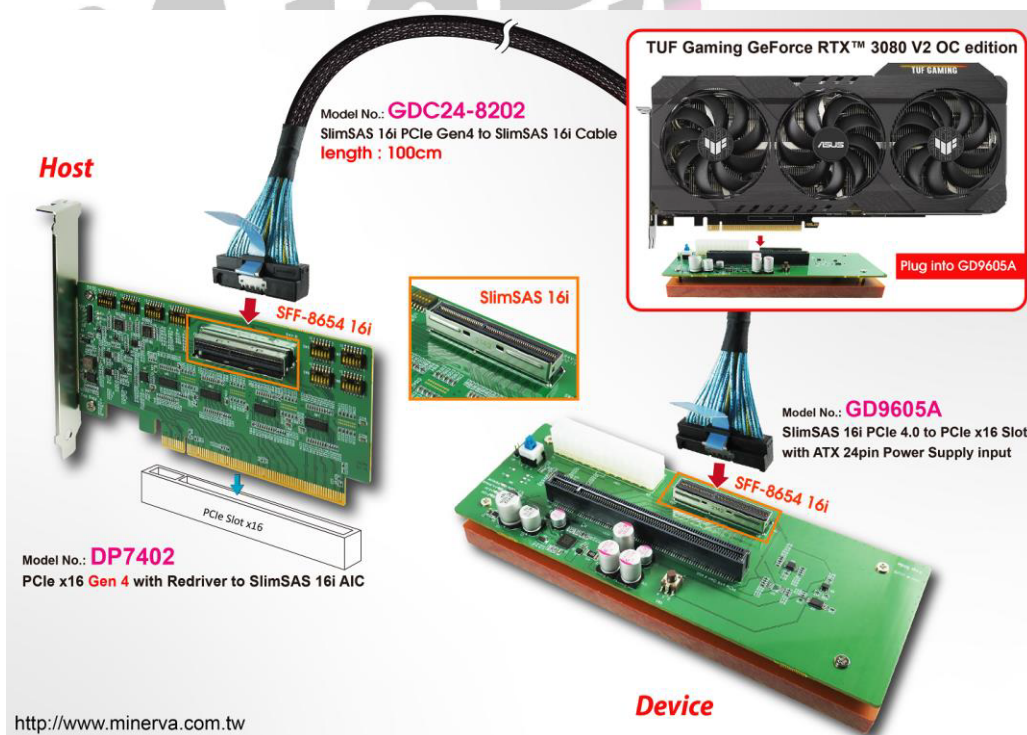
The GDC24-8202, 100cm cable supports PCIe 4.0 16 lanes link width and provides PCIe side band signals connection. The cable SI(Signal Integrity) is compliant with PCIe 4.0 Spec.

2. Tools and Results of Performance Measurement

2.1 Test Platform

M/B : ASUS **PRIME X570-PRO**
CPU : AMD **Ryzen 7, 3700X 8-Core**
Graphics: NVIDIA **GeForce RTX 3080 GPU**
Memory : Kingston **KVR26N19D8/16, DDR4-2666MHz, 32GB**(16GB DIMM*2)
ATX Power : COOLER MASTER G750M, **750W ATX**, 12V V2.2 Power Supply
Add in Card: DP7402 PCIe x16 with ReDriver to SlimSAS 16i(SFF-8654) AIC
Cable: GDC24-8202/PCIe 4.0 SFF-8654 16i, 100cm Cable
Adapter: GD9605A SlimSAS 16i(SFF-8654) to PCIe 4.0 x16 Slot adapter
OS : Microsoft **Windows 10 64bit OS**

2.2 Test target: DP7402, GD9605A adapter & ASUS **TUF-RTX3080-010G-GAMING**



SFF-8554 PCIe 4.0 High Speed cable

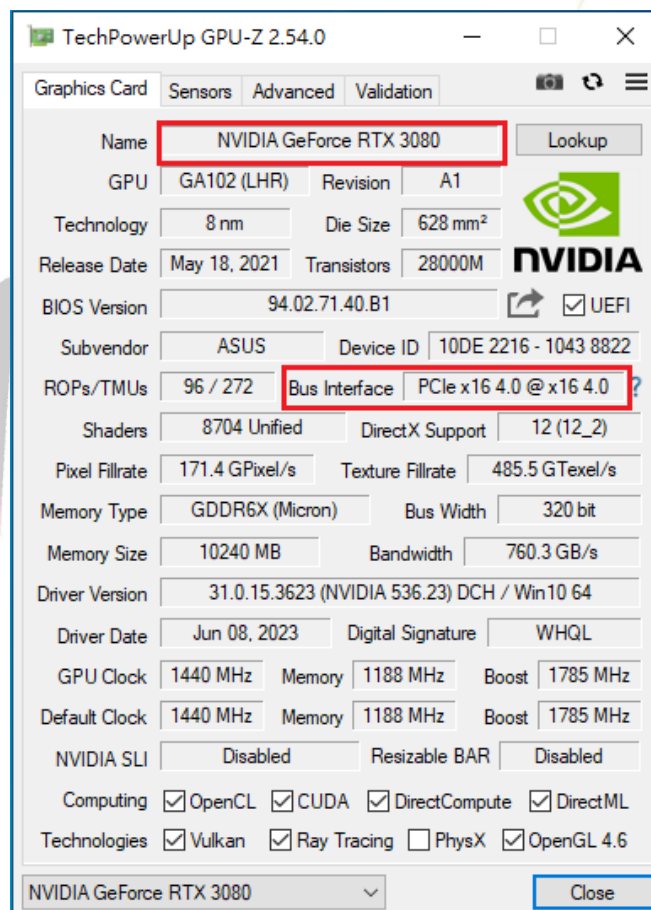
2.3 Install Hardware

First inserts the ASUS **TUF-RTX3080-O10G-GAMING** into the GD9605A PCIe X16 slot and connects the GD9605A adapter to the DP7402 AIC card (PCIe x16 Gen 4 with ReDriver to SFF-8654 16i dual port), using the **GDC24-8202, 100cm(8654 16i male to male)** Cable, and then Plugs DP7402 AIC into PCIe x16 Slot of ASUS **PRIME X570-PRO** mainboard.

2.4 BIOS & Windows 10 OS environment setup

2.4.1 Primary SATA NVMe SSD install Windows 10 OS.

2.5 **TUF-RTX3080-O10G-GAMING** Information:



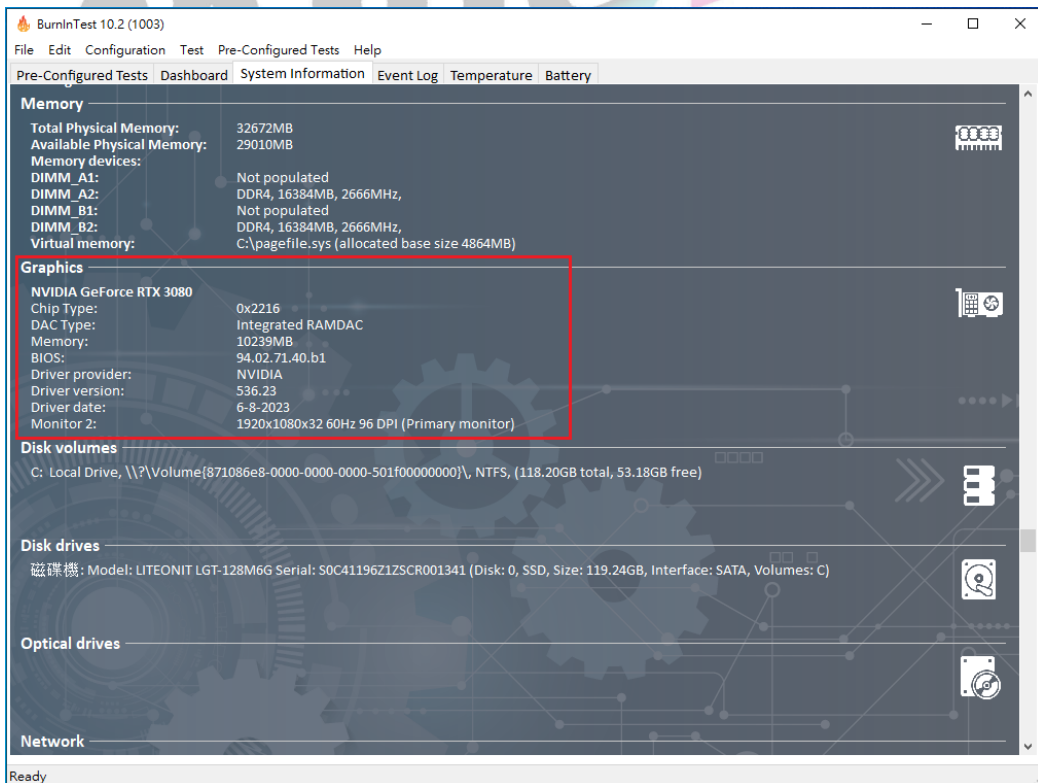
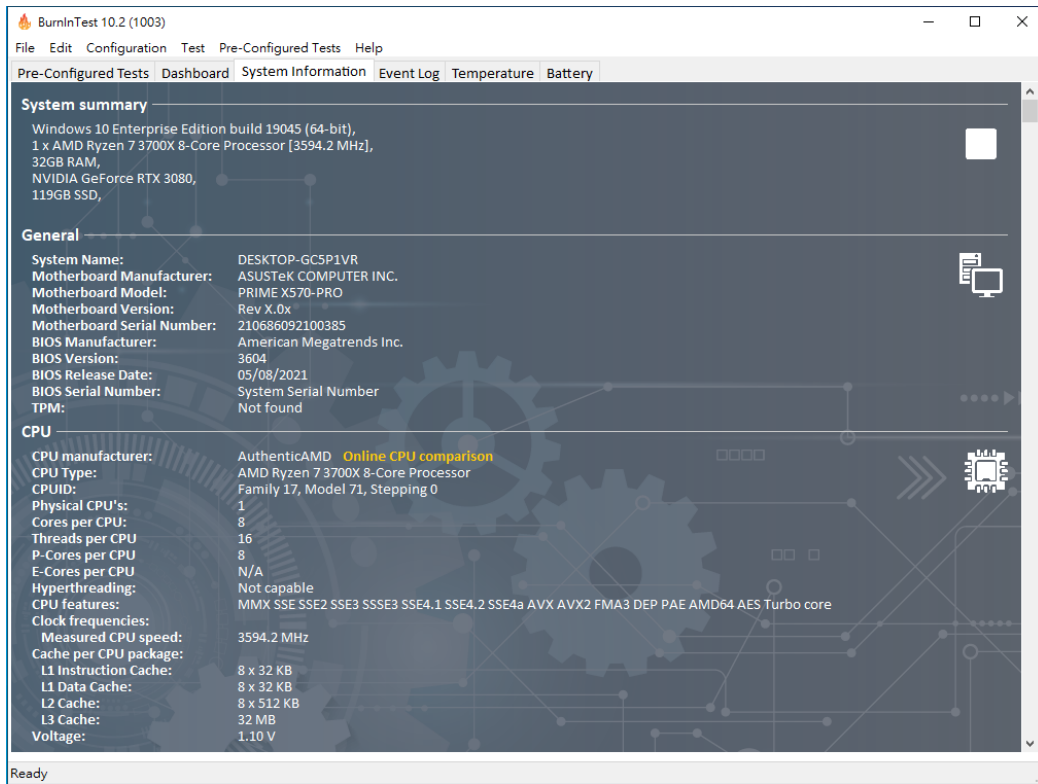
The screenshot displays the TechPowerUp GPU-Z 2.54.0 interface for an NVIDIA GeForce RTX 3080. The 'Name' field is highlighted in red, showing 'NVIDIA GeForce RTX 3080'. The 'Bus Interface' field is also highlighted in red, showing 'PCIe x16 4.0 @ x16 4.0'. Other visible specifications include: GPU GA102 (LHR), Revision A1, Technology 8 nm, Die Size 628 mm², Release Date May 18, 2021, Transistors 28000M, BIOS Version 94.02.71.40.B1, Subvendor ASUS, Device ID 10DE 2216 - 1043 8822, ROPs/TMUs 96 / 272, Shaders 8704 Unified, DirectX Support 12 (12_2), Pixel Fillrate 171.4 GPixel/s, Texture Fillrate 485.5 GTexel/s, Memory Type GDDR6X (Micron), Bus Width 320 bit, Memory Size 10240 MB, Bandwidth 760.3 GB/s, Driver Version 31.0.15.3623 (NVIDIA 536.23) DCH / Win10 64, Driver Date Jun 08, 2023, Digital Signature WHQL, GPU Clock 1440 MHz, Memory 1188 MHz, Boost 1785 MHz, Default Clock 1440 MHz, Memory 1188 MHz, Boost 1785 MHz, NVIDIA SLI Disabled, Resizable BAR Disabled, Computing options checked for OpenCL, CUDA, DirectCompute, and DirectML, and Technologies checked for Vulkan, Ray Tracing, and OpenGL 4.6.

SFF-8554 PCIe 4.0 High Speed cable

3. Burn In Tests and Results

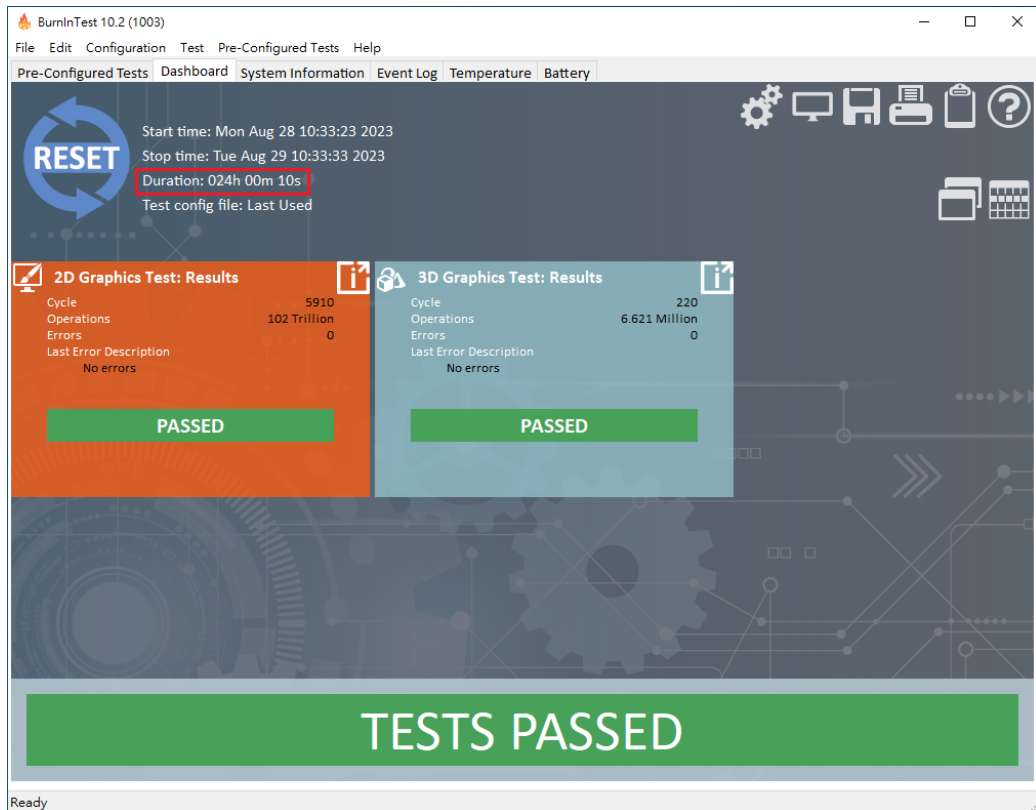
3.1 BurnInTest v10.2 Pro

3.1.1 system information as below:



SFF-8554 PCIe 4.0 High Speed cable

3.1.2 2D Graphics & 3D Graphics 24-hour Burn-in test **PASSED**



4. Summary

- 4.1 ASUS **TUF-RTX3080-O10G-GAMING** is PCIe 4.0 x16 link data width.
- 4.2 GDC24-8202, 100cm cable I/O performance is based on Graphic card.