



MINERVA

DP7402 PCIe x16 Gen4 with ReDriver to SFF-8654 16i AIC

Performance & Burn In Test Rev 1.0

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4. Summary

DP7402 Add-in Card

1. Overview

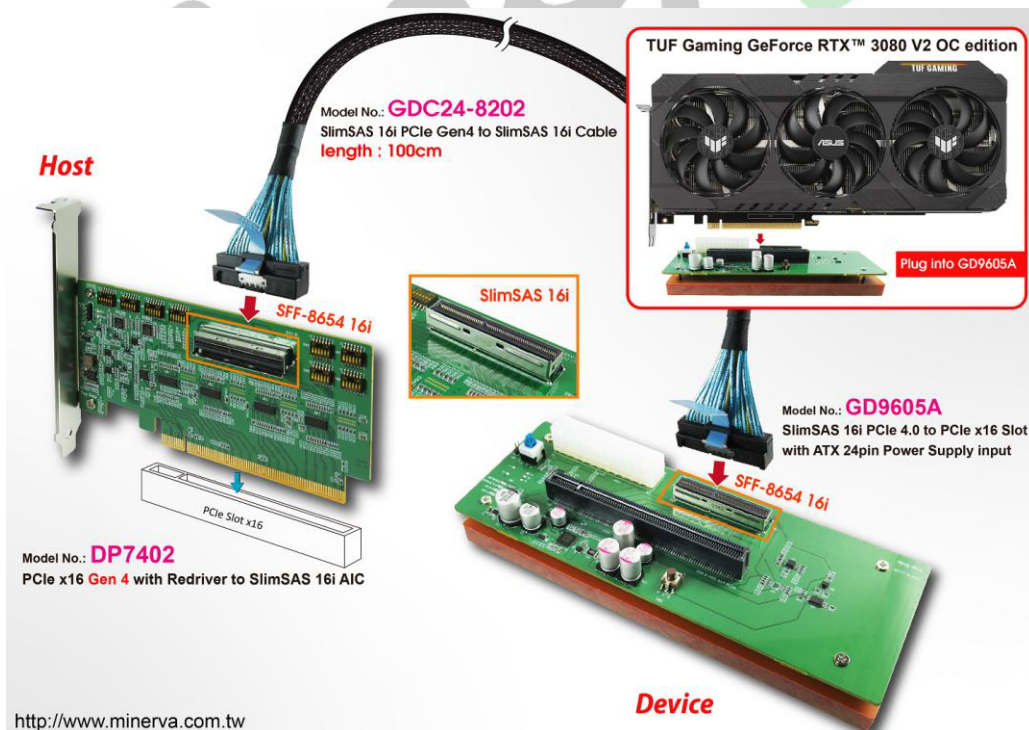
The DP7402 AIC has built-in ReDriver and is with SlimSAS 16i(SFF-8654) connector. It is designed for use by PCIe x16 to be bifurcated four x4 link width or can extend PCIe x16 signals channel reach. The PCIe 4.0 ReDriver controller may support CTLE boosts up to **13 dB**.

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: 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-O10G-GAMING**



DP7402 Add-in Card

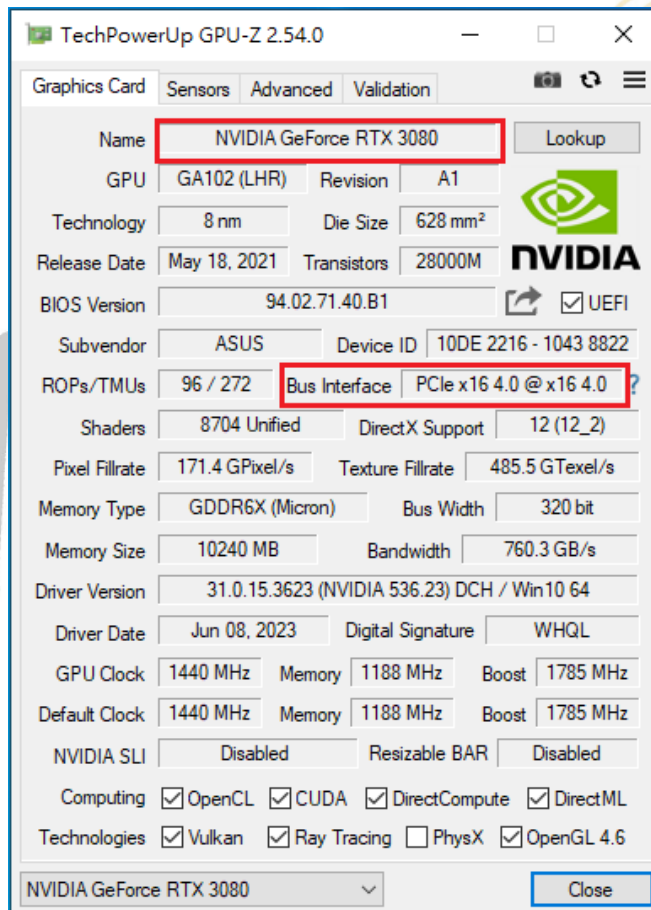
2.3 Install Hardware

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:

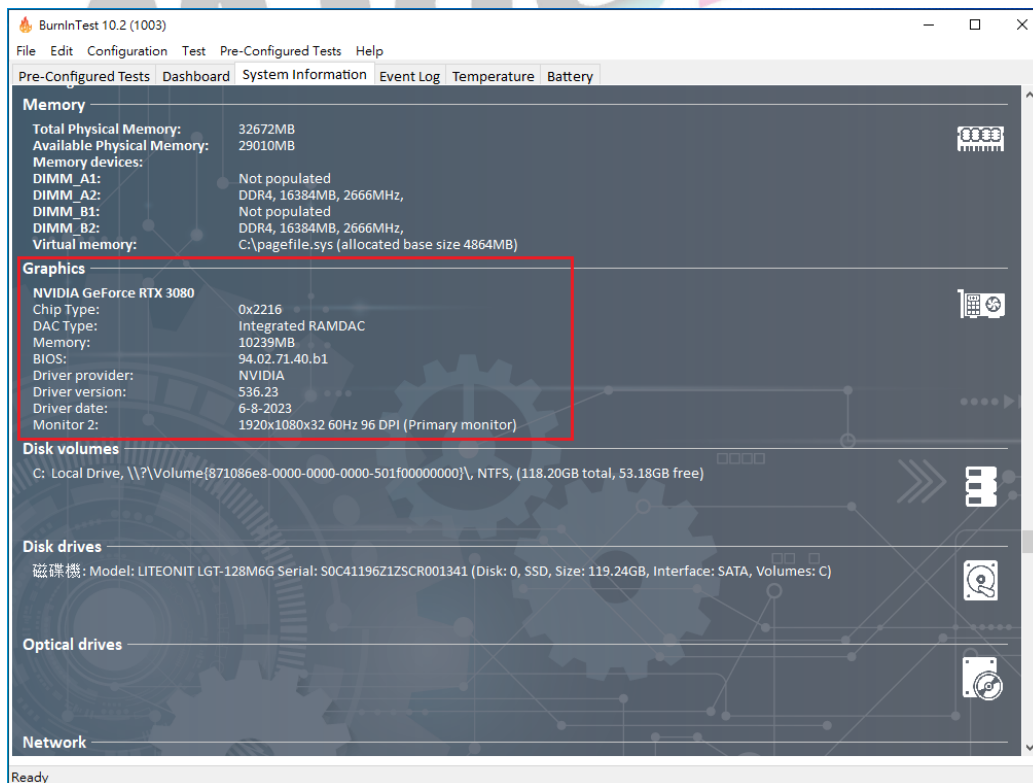
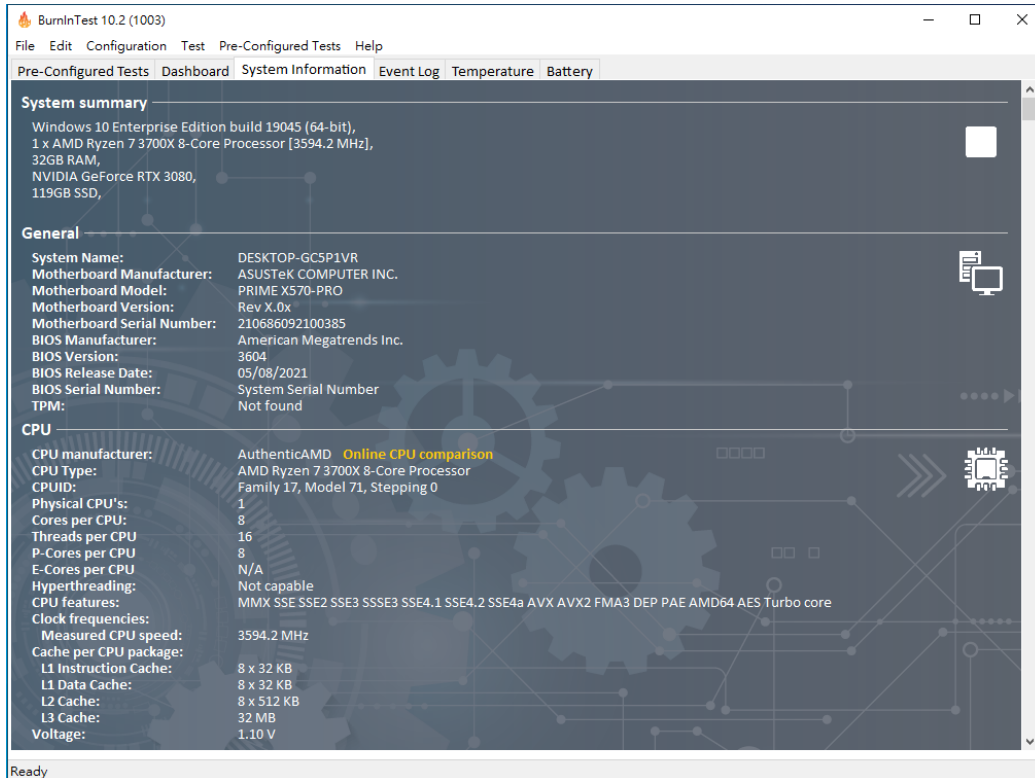


DP7402 Add-in Card

3. Burn In Tests and Results

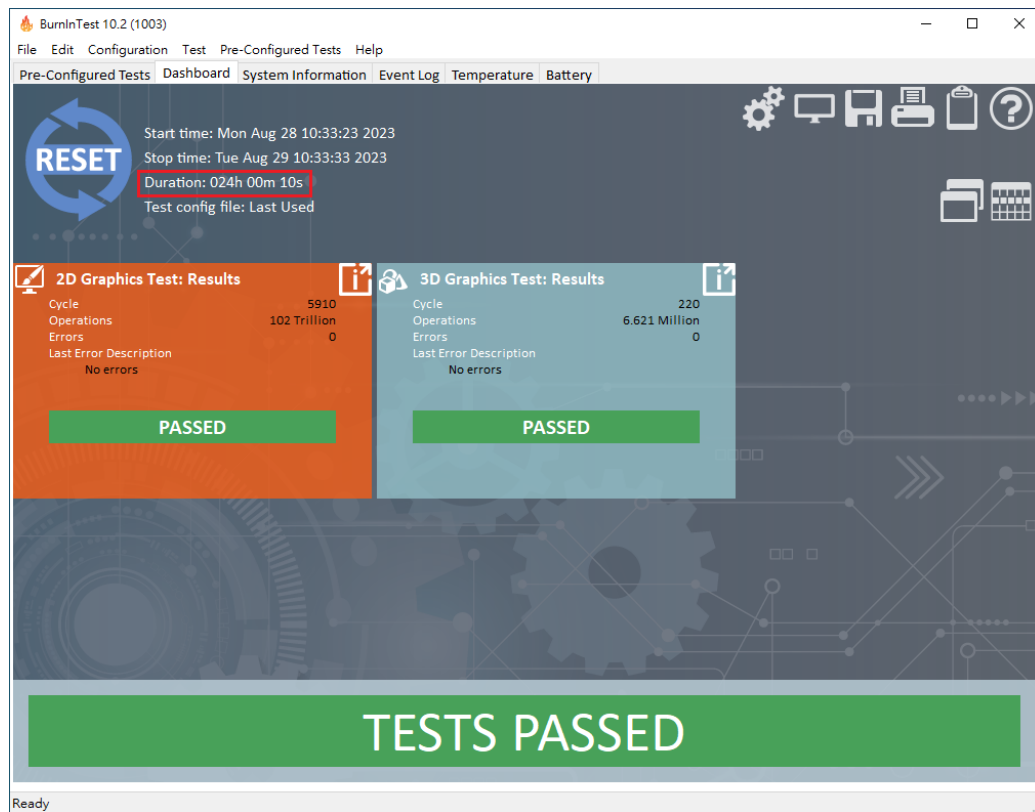
3.1 BurnInTest v10.2 Pro

3.1.1 system information as below:



DP7402 Add-in Card

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 DP7402 AIC & GD9605A Adapter I/O performance is based on Graphic card.