



MINERVA

DP7604 PCIe 4.0 x16 with ReDriver to SFF-8674 8X dual port

Performance & Burn In Test Rev 1.0

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4. Summary

DP7604 Add-in Card

1. Overview

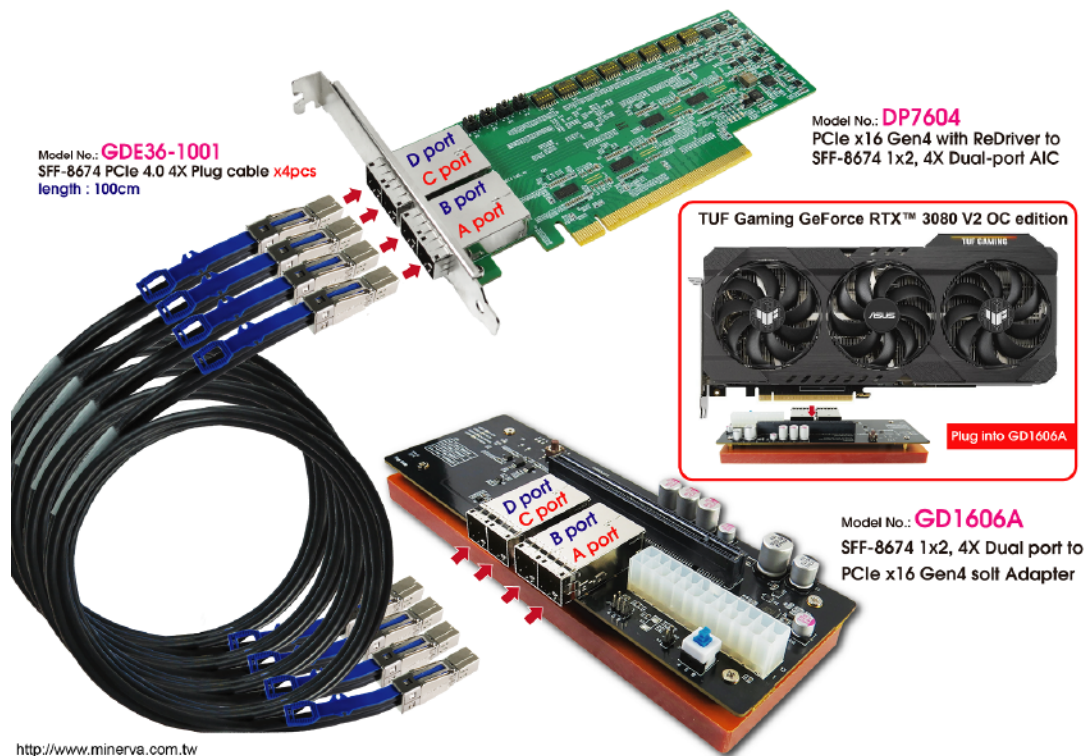
The DP7604 AIC has built-in ReDriver and is with Mini SAS HD 1x2,4X dual port connector. It is designed for use by PCIe x16 to be bifurcated four x4 link width or can extend PCIe x16 signals channel reach. The PCIe 4.0 ReDriver controller may support CTLE boosts up to **13dB**.

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: DP7604 PCIe x16 with ReDriver to Mini SAS HD 1x2,4X dual port AIC
Cable: PCIe 4.0 Mini SAS HD(SFF-8674), 100cm Cable x4pcs
Adapter: GD1606A Mini SAS HD 1x2,4X dual port to PCIe 4.0 x16 Slot adapter
OS : Microsoft **Windows 10 64bit OS**

2.2 Test target: DP7604, GD1606A adapter & ASUS **TUF-RTX3080-O10G-GAMING**



DP7604 Add-in Card

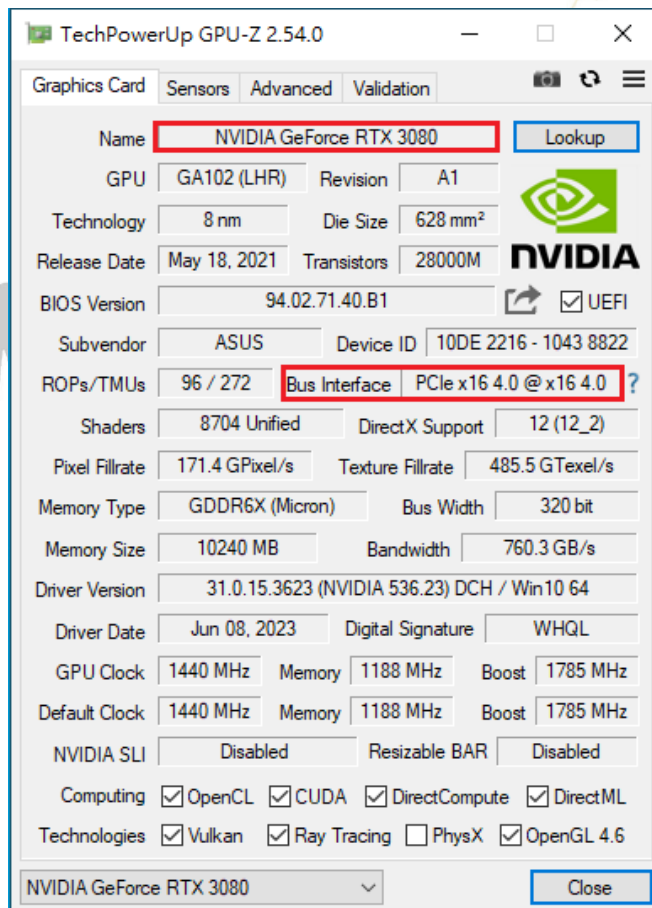
2.3 Install Hardware

First inserts the ASUS **TUF-RTX3080-O10G-GAMING** into the GD1606A PCIe X16 slot and connects the GD1606A adapter to the DP7604 AIC card (PCIe x16 Gen 4 with ReDriver to Mini SAS HD 1x2,4X dual port), using the **GDE36-1001, 100cm(8674 4x male to male)** Cable, and then Plugs DP7604 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:

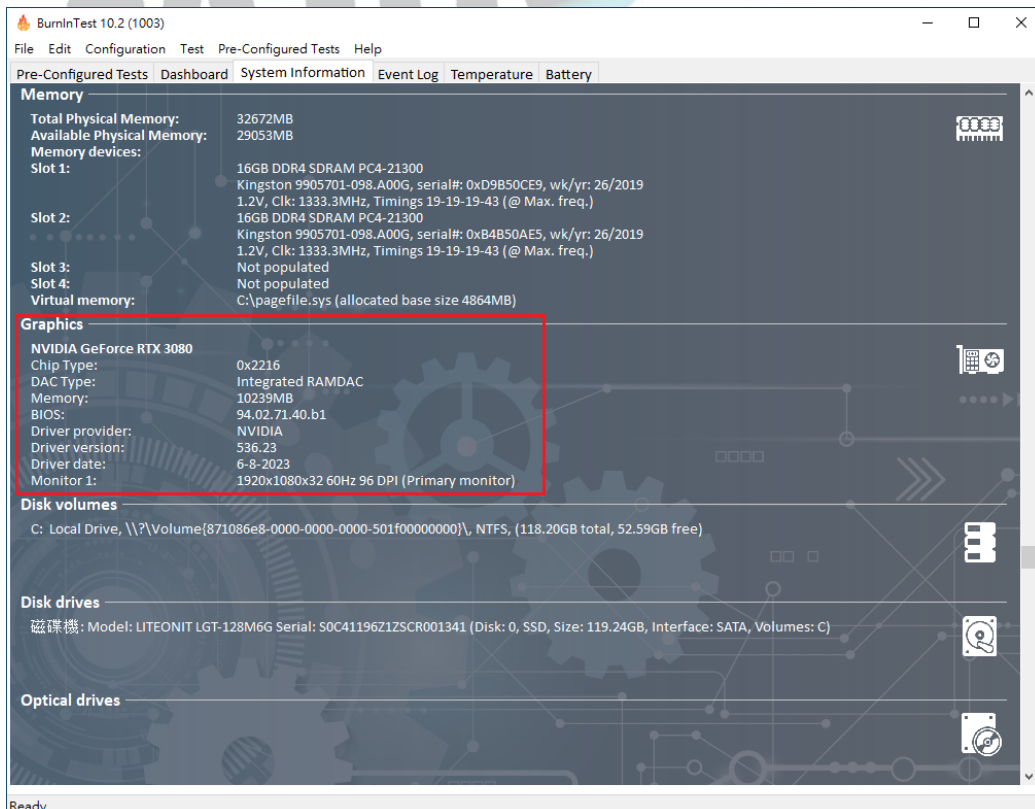
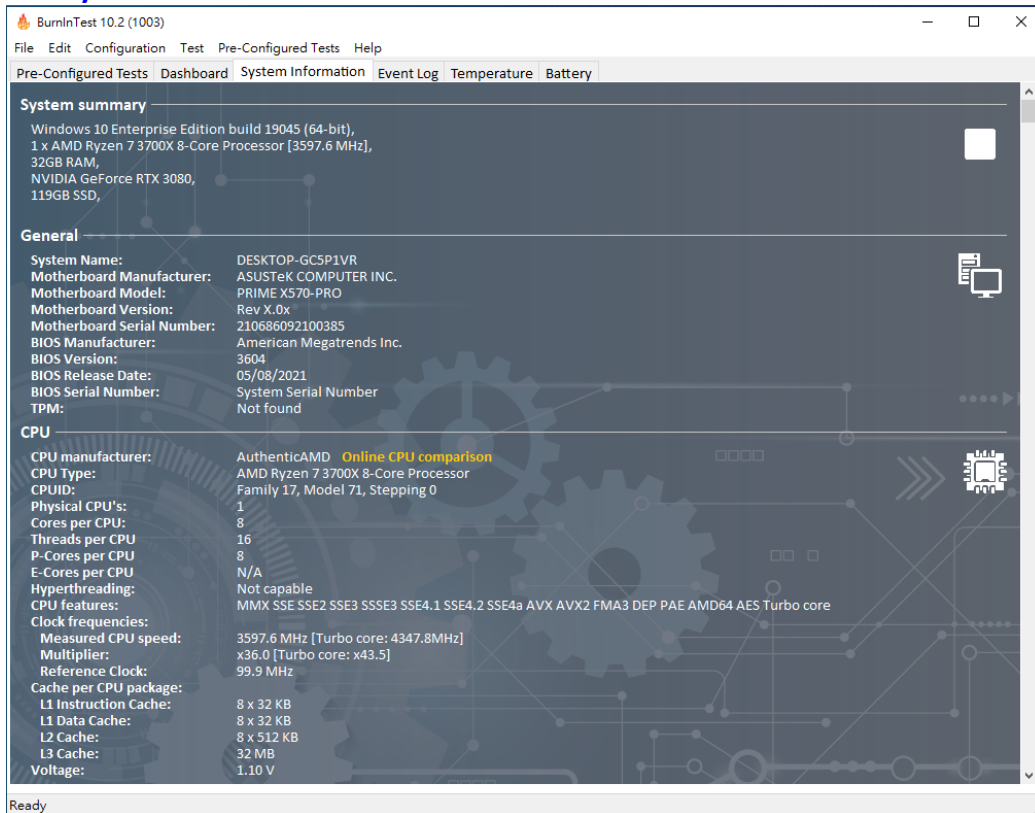


DP7604 Add-in Card

3. Burn In Tests and Results

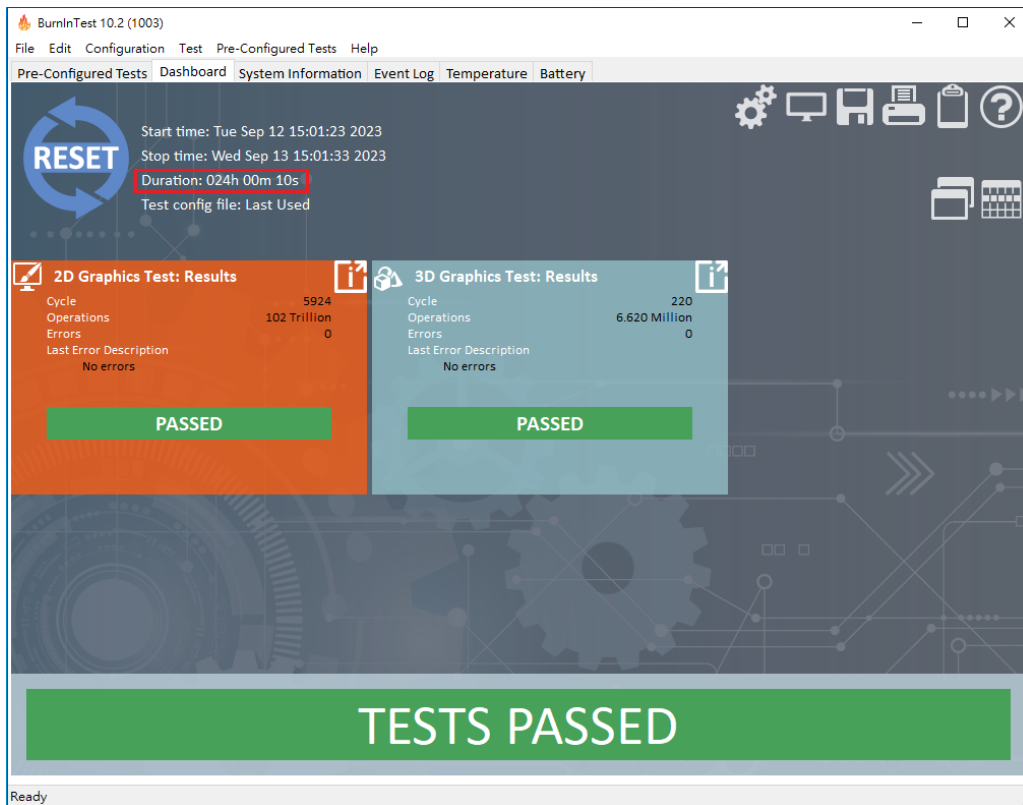
3.1 BurnInTest v10.2 Pro

3.1.1 system information as below:



DP7604 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 DP7604 AIC & GD1606A Adapter I/O performance is based on Graphic card.