



MINERVA

DP7303 PCIe 4.0 x16 with ReDriver to OCulink 8i dual port

Performance & Burn In Test Rev 1.0

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DP7303 Add-in Card

1. Overview

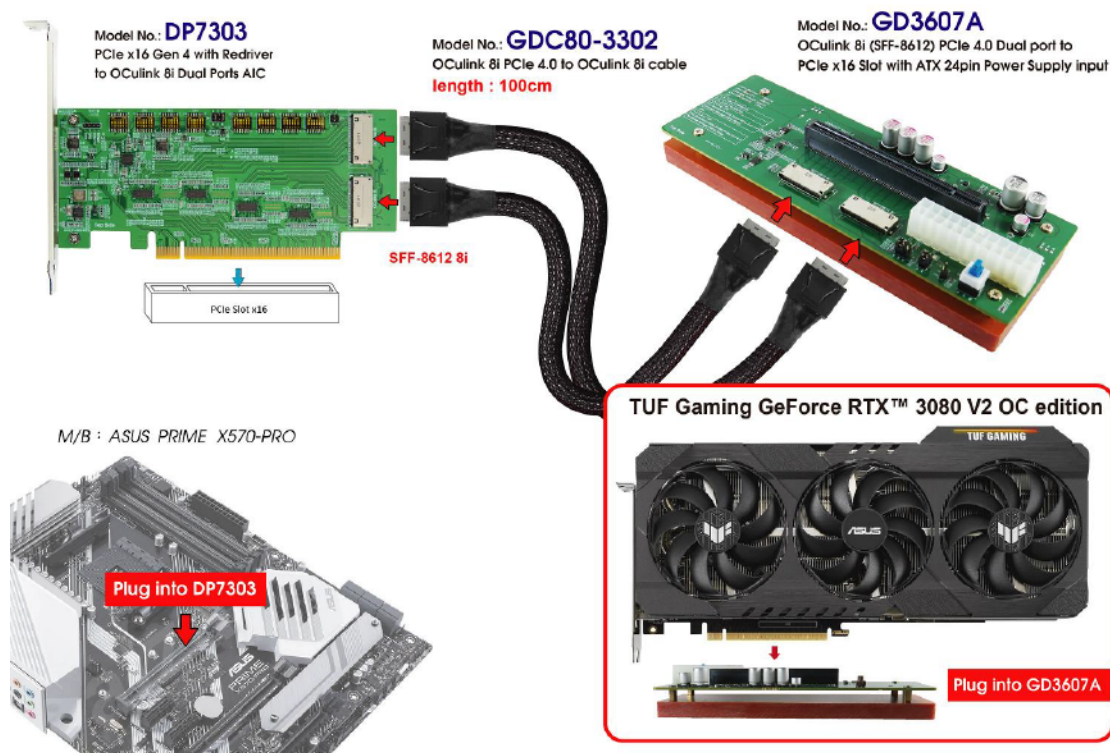
The DP7303 AIC has built-in ReDriver and is with OCulink 8i(SFF-8612) dual port connector. It is designed for use by PCIe x16 to be bifurcated four x4 link width or can extend PCIe x16 signals channel reach. The PCIe 4.0 ReDriver controller may support CTLE boosts up to **13dB**.

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: DP7303 PCIe x16 with ReDriver to OCulink 8i(SFF-8612) dual port AIC
Cable: PCIe 4.0 OCulink 8i(SFF-8612), 100cm Cable x2pcs
Adapter: GD3607A OCulink 8i(SFF-8612) dual port to PCIe 4.0 x16 Slot adapter
OS : Microsoft **Windows 10 64bit OS**

2.2 Test target: DP7303, GD3607A adapter & ASUS **TUF-RTX3080-O10G-GAMING**



DP7303 Add-in Card

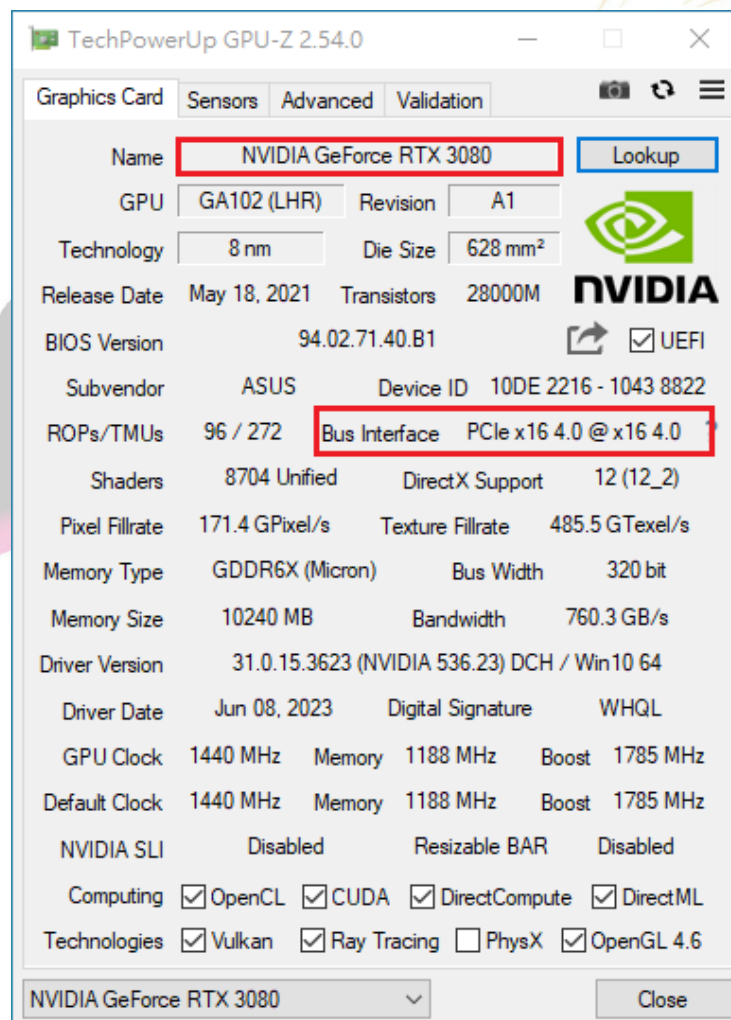
2.3 Install Hardware

First inserts the ASUS **TUF-RTX3080-O10G-GAMING** into the GD3607A PCIe X16 slot and connects the GD3607A adapter to the DP7303 AIC card (PCIe x16 Gen 4 with ReDriver to OCulink 8i(SFF-8612 dual port), using the **GDC80-3302, 100cm(8612 8i male to male)** Cable, and then Plugs DP7303 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:

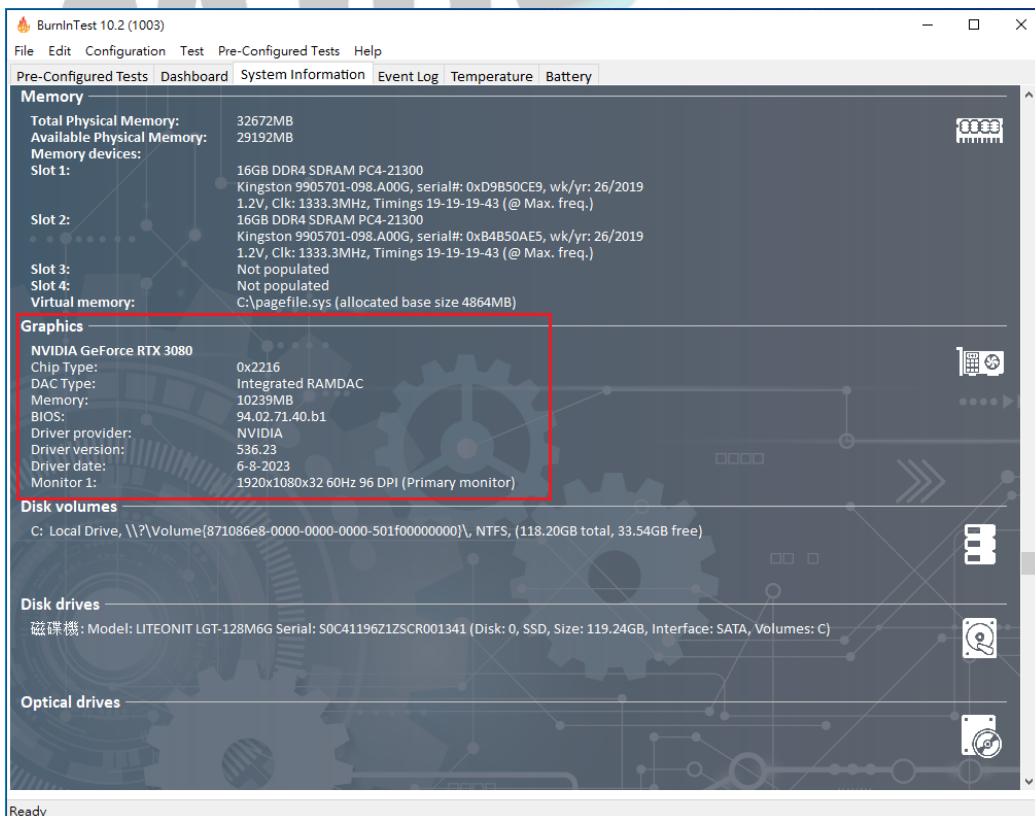
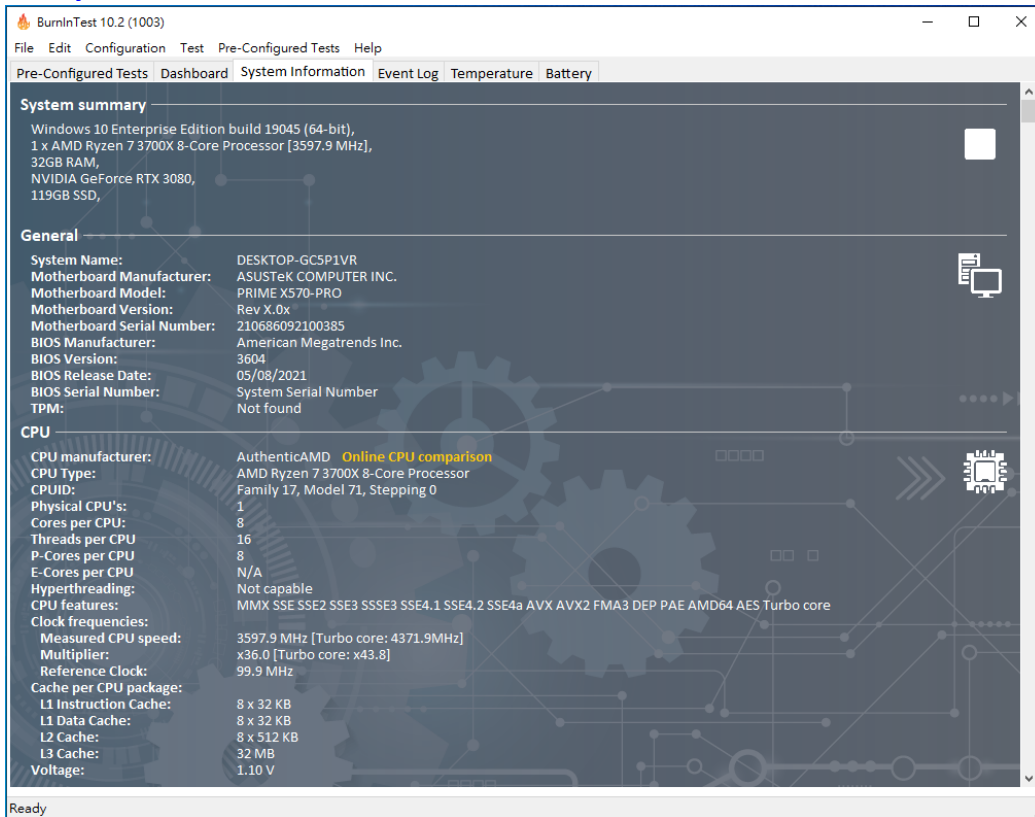


DP7303 Add-in Card

3. Burn In Tests and Results

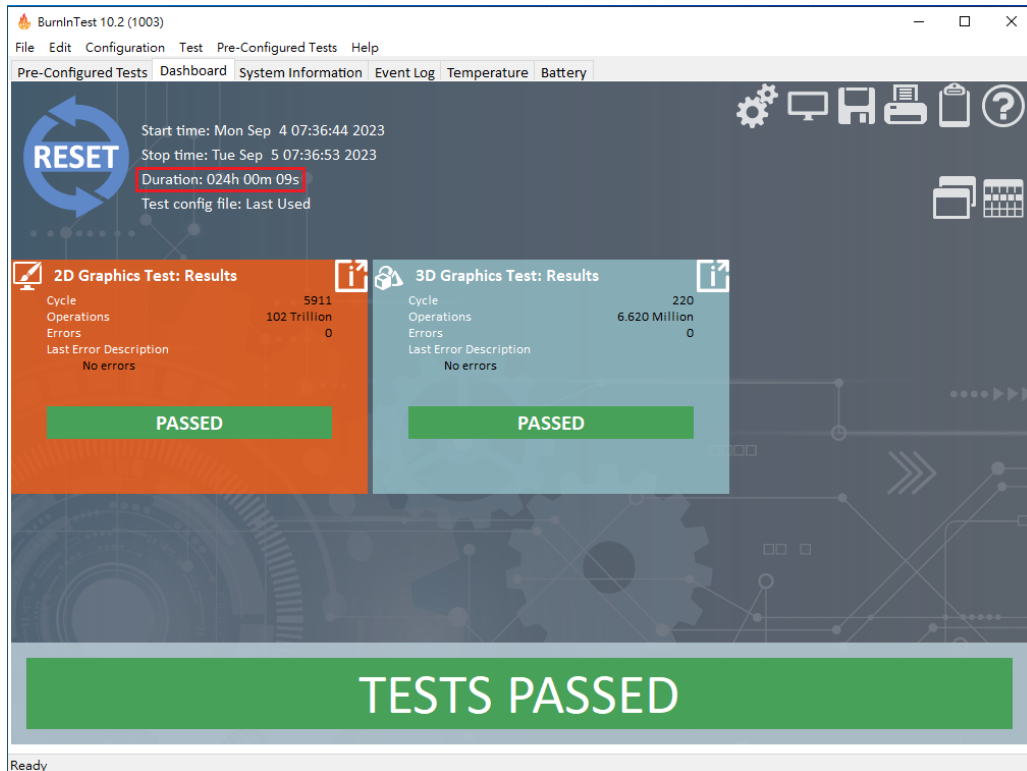
3.1 BurnInTest v10.2 Pro

3.1.1 system information as below:



DP7303 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 DP7303 AIC & GD3607A Adapter I/O performance is based on Graphic card.