



# MINERVA

GD9605A SFF-8654 16i to PCIe 4.0 x16 Slot with Hot Plug Power

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## Performance & Burn In Test Rev 1.0

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# GD9605A PCIe X16 Slot Backplane

## 1. Overview

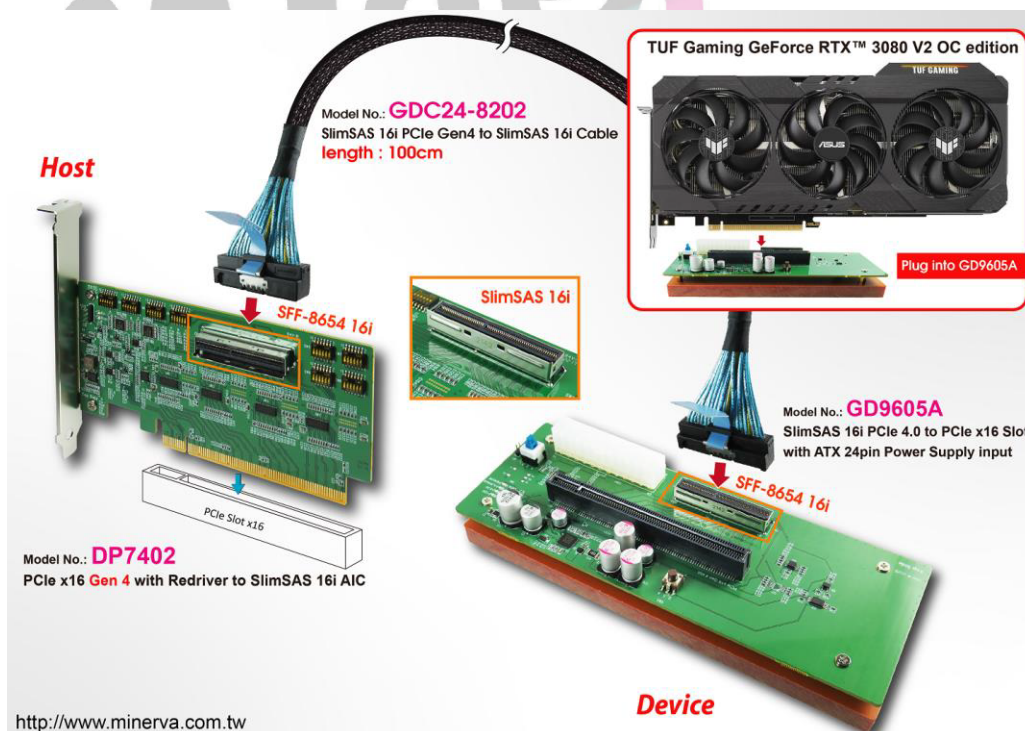
The GD9605A PCIe 4.0 x16 backplane has built-in PCIe 12V, 3.3V, 3.3Vaux power rail Hot-Plug controller and Conductive Polymer Aluminum Solid Capacitors with SlimSAS 16i(SFF-8654) connector. It is designed to extend PCIe x16 signals channel reach.

## 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**



# GD9605A PCIe X16 Slot Backplane

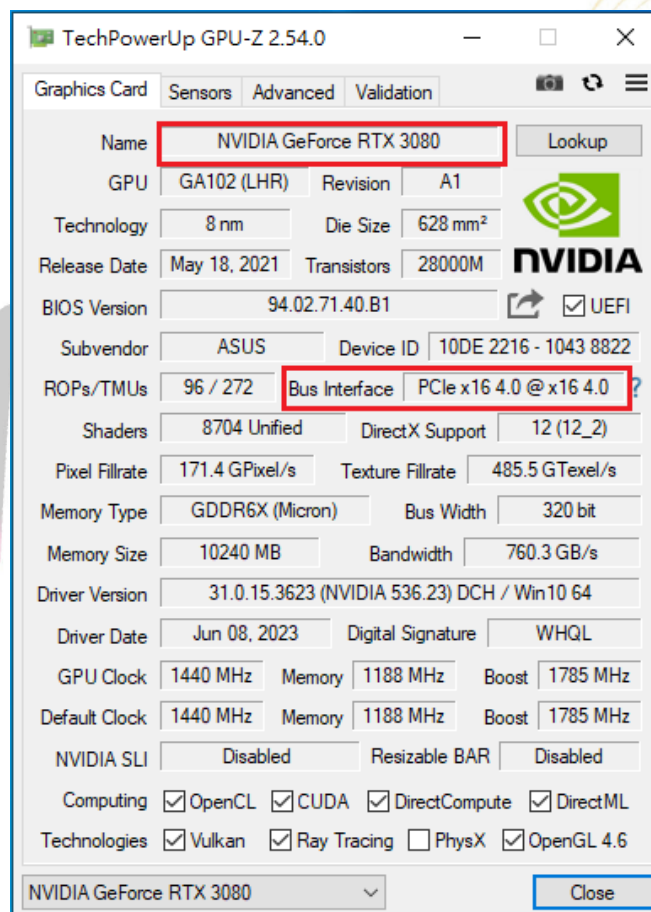
## 2.3 Install Hardware

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:

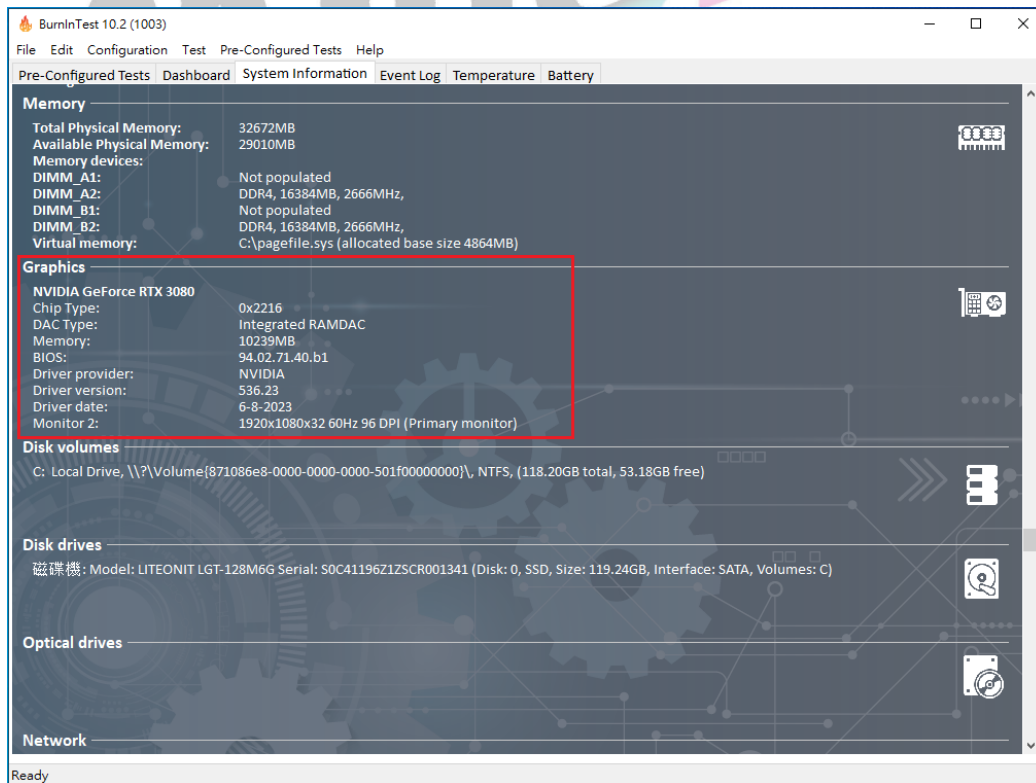
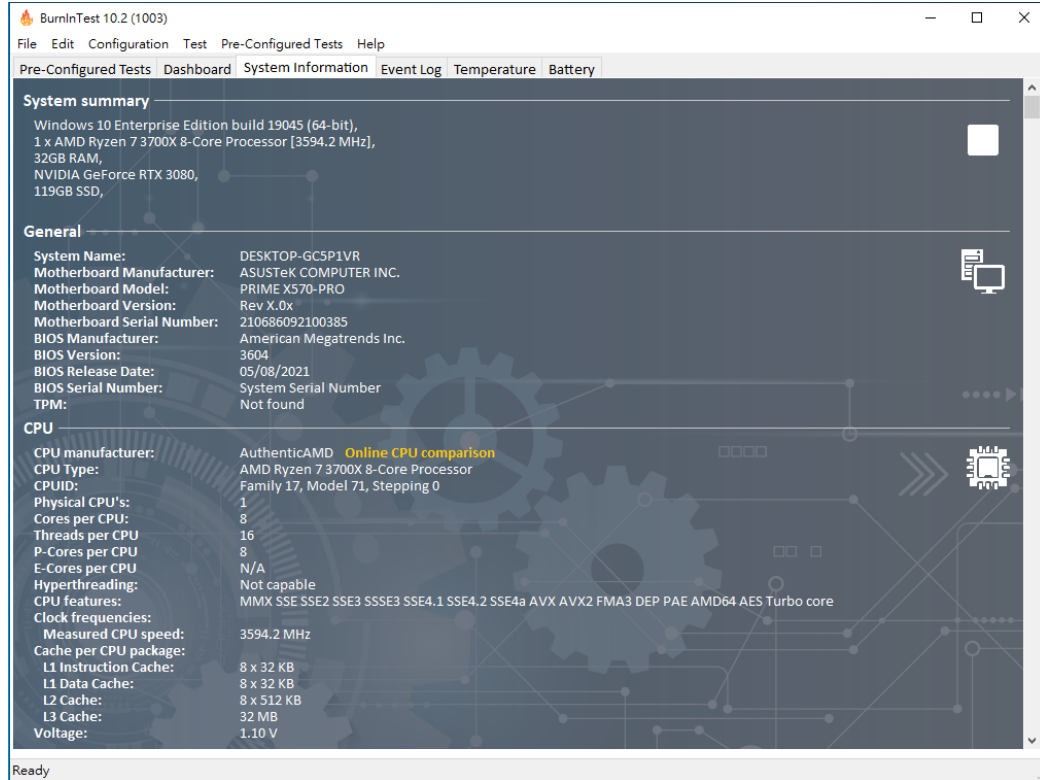


# GD9605A PCIe X16 Slot Backplane

## 3. Burn In Tests and Results

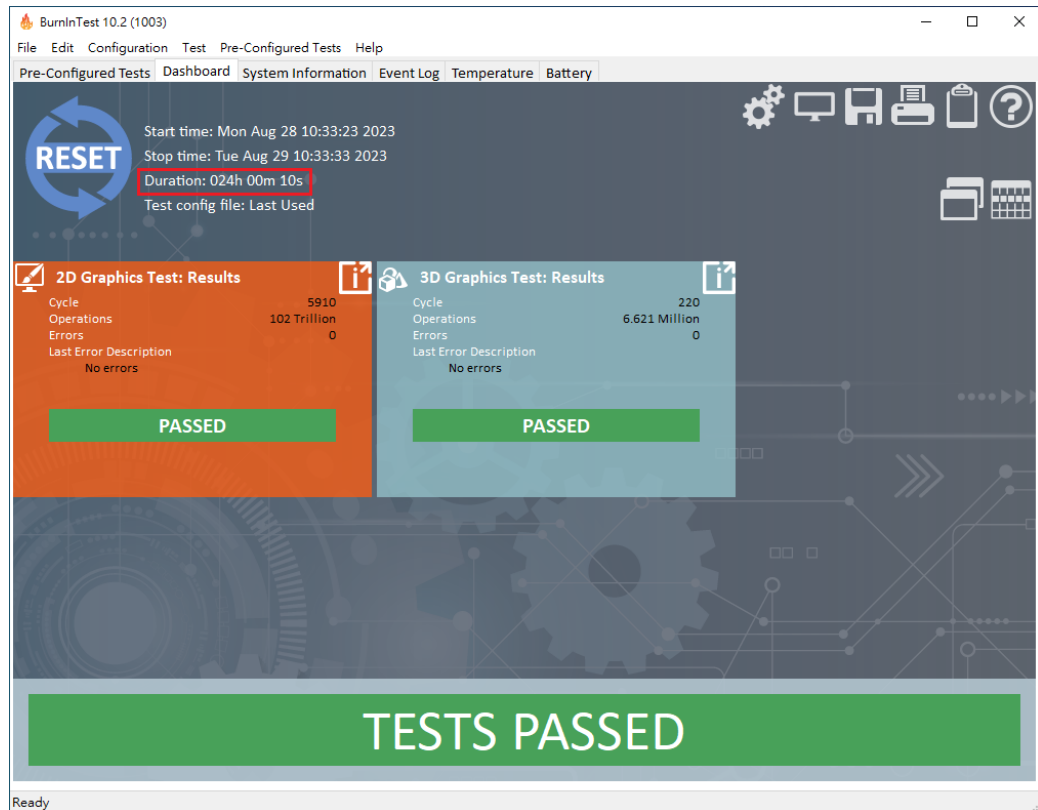
### 3.1 BurnInTest v10.2 Pro

#### 3.1.1 system information as below:



# GD9605A PCIe X16 Slot Backplane

## 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.