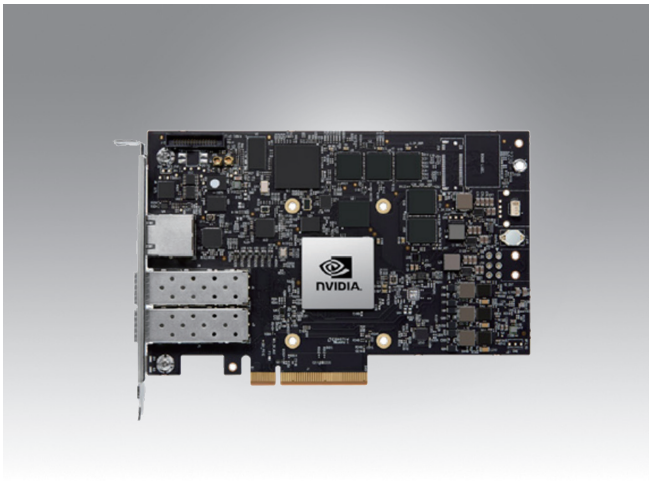
# PCIE-5521

## Dual Port Fiber 25GbE Ethernet PCI Express Data Processing Unit with NVIDIA® BlueField®-2



## Features

- NVIDIA® BlueField®-2 Controller
- 2 25GbE SFP56 ports
- PCIe Gen. 4 x8 host interface
- Full-height-half-length form factors
- Supports 25GBASE-R, 10GBASE-SR and 10GBASE-LR modules
- Supports SR-IOV based virtualization

## Introduction

The PCIE-5521 built on NVIDIA® is a full-height-half-length dual port 25GbE Ethernet Data Processing Unit (DPU) based on the NVIDIA® BlueField®-2 Controller that supports PCIe gen. 4. The DPU supports up to two SFP56 ports of 25GbE connectivity to deliver accelerated software-defined networking, storage, security, and management services. By combining the NVIDIA ConnectX®-6 Dx network adapter with an array of Arm® cores, BlueField-2 offers purpose-built hardware-acceleration engines with full software programmability. Meanwhile, through The NVIDIA DOCA™ software framework, developers can rapidly create applications and services.

PCIE-5521 is an ideal network interface solution for Enterprise data centers with Big data analytics, Cloud-native, web 2.0, hyperscale, Cybersecurity, network function virtualization (NFV), Machine learning and AI.

## Specifications

| | | |
|---|---|---|
| Controller | Controller | NVIDIA® BlueField®-2 |
| | Physical Functions | 8 |
| | Virtual Functions | 1K |
| Ethernet | PCI Express Lanes | x8 |
| | Speed | Gen 4 |
| | Port Number | 2 |
| | Ports | 25GbE SFP56 |
| Networking | LAN Bypass | Not supported |
| Power | Voltage | +12V |
| | Watts | 75W |
| Mechanical Design | Board Dimension (D x W) | 167.65 x 68.9 mm |
| | Bracket | Standard height |
| Environment | Operating Humidity | 0 to 90% (non-condensing) |
| | Operating Temperature | 0 ~ 45 °C (32 ~ 113 °F) |
| | Storage | -40 ~ 70 °C (-40 ~ 158 °F) |
| Certification | EMC | CE / FCC / VCCI / ICES / RCM |

## Ordering Information

| Part Number | Description |
|---|---|
| PCIE-5521NP-MEA1E | Dual Port Fiber 25GbE (SFP56) Ethernet PCI Express Data Processing Unit with NVIDIA® BlueField®-2 controller, PCIe gen. 4 x8 |

Please contact your Advantech representative for a list of supported and validated transceiver modules.

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