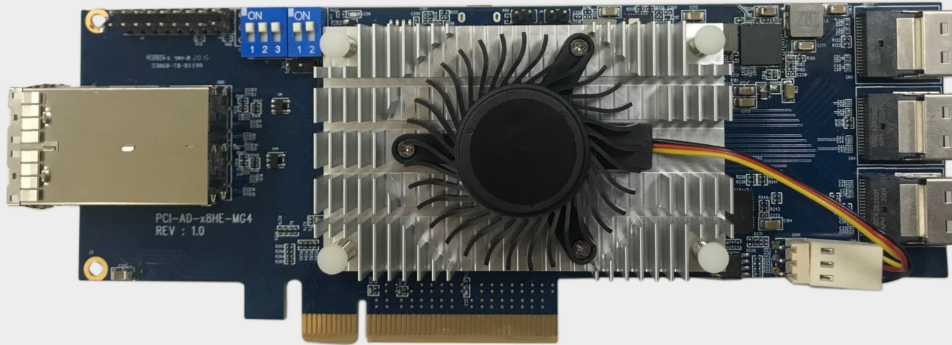




PCIe Gen4 Host Adapter Cards



Overview

Serial Cables introduces their new PCIe/NVMe host card featuring the Microchip PCIe Gen4 switch (PM40028). PCIe Gen4 Specification-compliant, this host card also has integrated hot and surprise – plug controllers per port. Switchtec devices are designed for line rate performance, low latency, and maximum flexibility.

Features

- LED indication for port bifurcation and port failure.
- Features PCIe reference clock delivery in MiniSAS-HD and SlimSAS connectors, flexible for users to connect devices supporting SRIS/SRNS or neither. The clock domain resides in the upstream port which connects to host to support both of CFC or SSC.
- External and internal connector form factor is flexible to connect external enclosures for storage space extension or direct attached NVMe drives.
- PCIe-SIG compliant as well as direct attached mode supported within the SFF8674 connector, with side-band modes switchable by on-board slide switch.
- Implements micro-controller for host card management and Switchtec MRPC command support.

Models	PCI-AD-x8HE-MG4
Form Factor	Standard half-height, half-length PCIe Add-in Card form factor
Card Physical Dimension	180mm (L) x 66mm (H) PCI Express add-in card standard, Thickness .063" +/- 0.008" (1.6mm +/- 0.2mm)
PCIe Switch	Microchip PM40028 PCI Express (PCIe) 4.0 switch
Connectors	One x8 SFF8674 MiniSAS-HD Three x4 SFF8654 SlimSAS
LEDs indication	Switch heartbeat (Blue) Port status (Red)
Bandwidth	PCIe Gen4 x8 128GT/s in Upstream port (Host) PCIe Gen4 x20 320GT/s in Downstream ports (Device)
Port Bifurcation	X8 mode: one x8 port in MiniSAS-HD, Three X4 ports in SlimSAS X4 mode: Two x4 ports in MiniSAS-HD, Three X4 ports in SlimSAS X2 mode: Four x2 ports in MiniSAS-HD, Six X2 ports in SlimSAS