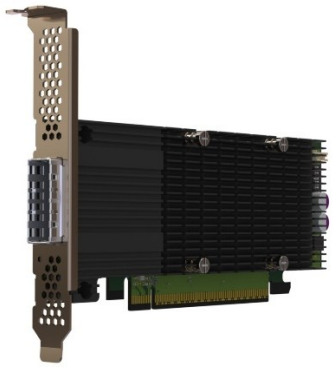
MXH572 PCIe 5.0 x16 CDFP Transparent Adapter



Features

- ✓ PCI Express 5.0 - 32.0 GT/s per lane
- ✓ Microchip Switchtec® PCIe 5.0 PFX
- ✓ Link compliant with PCIe 1.0, 2.0, 3.0, 4.0, and 5.0
- ✓ Host Clock isolation support
  Automatic support for a host running CFC or SSC
- ✓ x16 CDPF connectors
- ✓ Low Profile, Half Length PCIe form factor
- ✓ Support for both copper and fiber cables
- ✓ FLASH for multiple system configurations
- ✓ Link status LED through the faceplate
- ✓ ~600ns - application-to-application latency
- ✓ ~100ns-cut-through latency
- ✓ eXpressWare™ Board Management software license

The MXH572 PCIe 5.0 Transparent Host/Target Adapter is our High-Performance IO product. It is designed to the PCI-SIG Card Electromechanical (CEM) Specification 5.0 and the PCI-SIG CopprLink 1.0 specification and employs the Microchip Switchtec® PCIe 5.0 PFX switch to facilitate reliable, fast host-to-IO communication.

The MXH572 adapter is available in two versions: MXH572 with a passive heatsink and MXH572F with an integrated fan, for use with AOCs, open desktops, or low-airflow environments.

For high-performance applications, such as GPU farms, test and measurement equipment, medical equipment, and storage subsystems, the MXH572 delivers flexibility and performance with extremely high data quality. It combines 512 Gb/s performance with the low latency of PCI Express, which is ideal for external I/O Expansion systems.

www.dolphinics.com/products/MXH572.html

Configurations

The MXH572 enables the establishment of the following PCIe network topologies:

Transparent IO: The card enables a transparent IO connection to a device compliant to the PCI-SIG CopprLink 1.0 specification – e.g., Dolphins' range of eBox 4 or eBox 4 Pro Expansion products.

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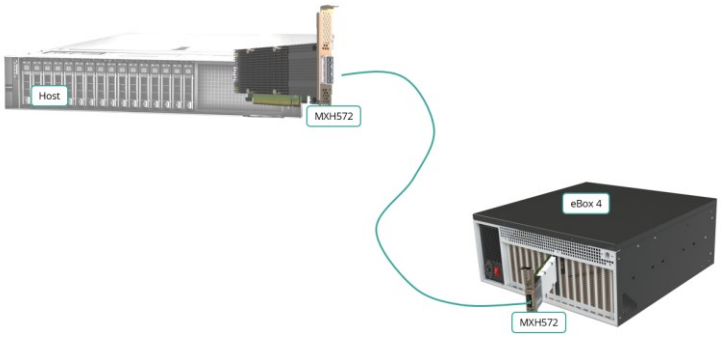

Topology Example

Specifications

PCI Express	➢ Base Specification 5.0 ➢ CopprLink Specification 1.0 ➢ Card Electromechanical Specification 5.0	Operating Environment	➢ Operating Temperature: 0˚C - 45˚C (32˚F - 113˚F) ➢ Airflow: See users guide ➢ Relative Humidity: 5% -95% non-condensing
Cut-through latency	~100ns	Storage Environment	➢ Storage Temperature: -40˚C to 70˚C (-40˚F to 158˚F) ➢ Relative Humidity: 95% (non-condensing) at 35°C
Active Components	Microchip Switchtec® PCIe 5.0 PFX Switch	Mechanical Dimensions	Low profile, half-length, 167.65mm (6.6 inches) x 68.90 mm (2.731 inches)
		Software	Optional Dolphin Board Management software available for Linux and Windows
Max Link Speeds	512Gb/s	Usage Modes	Transparent Host/Target
Configuration	DIP-switch	Operating Systems	All
		Optional Board Management tool	Linux, Windows
Topologies	Host to IO	Regulatory markings	➢ CE ➢ FCC Class B ➢ EFUP 50 ➢ KCC
		Regulatory Compliance	➢ Reach ➢ RoHS ➢ UL94V-0
Supported Dolphin cables	Single x16 CDFP connector ➢ 1–3-meter PCPR5C-444 PCIe 5.0 x16 copper cable ➢ 10- 50 meters PCPR5FC-444 PCIe 5.0 x16 fiber optic cables ➢ 1.25-meter PCPR5PC-44-1M25 PCIe 5.0 x16 fiber optic pigtails ➢ 24-strand patch cables 10 – 50 meters Full support for PCI-SIG CopperLink 1.0-compliant cables and 3rd party devices.	Mounting Brackets	➢ Full-height bracket installed ➢ Half-height bracket is included in the shipping box
Maximum power rating	➢ 12V: 2.8A (no port power) ➢ 12V: 4.0A (max port power) ➢ 3.3V: Not connected ➢ 3.3V Vaux: 100mA	Product Codes	➢ MXH572 Host/Target Transparent Adapter – Passive Heatsink ➢ MXH572F Host/Target Transparent Adapter – Active fan Heatsink Please consult the MXH572 Users Guide for recommendations
Typical power rating	➢ 12V: 2.5A (Copper Cable) ➢ 12V: 3.5A (AOC) ➢ 3.3V: Not connected ➢ 3.3V Aux:100mA	Regulatory Approvals	➢ EN 55032:2015+A11:2020 ➢ EN 55035:2017+A11:2020 ➢ EN 61000-3-2:2014 ➢ EN 61000-3-3:2013 ➢ KS C 9832:2024, KS C 9835:2019 ➢ 47 CFR Part 15, Subpart B
Port Power	➢ 12V (11V-13V): 1.0A Max (12W) ➢ 3.3V (3.2V-3.4V): 1.5A Max (5W)		

September 8th, 2026