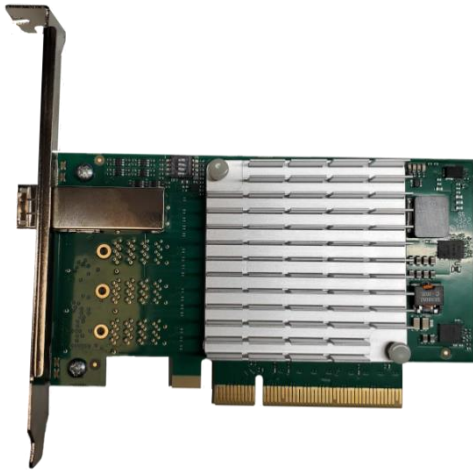


# MXH915 PCIe 4.0 x4 Transparent Host Adapter



## Features

- ✓ Microchip Switchtec® Gen 4.0 PFX PCIe PM40028
- ✓ Full host Clock isolation support
- ✓ Automatic support for host running CFC or SSC
- ✓ Link compliant with Gen 1.0, 2.0, 3.0 and 4.0 PCIe
- ✓ Single SFF-8644 connector
  - PCle 4.0 copper cable
  - PCle 4.0 Fiber optic cable
- ✓ Link status LEDs through face plate
- ✓ Flash for custom system configuration
- ✓ Low Profile, Half Length PCIe form factor
- ✓ 100ns - Cut Through latency.
- ✓ eXpressWare™ Board Management software license

The MXH915 Gen 4.0 PCI Express Transparent Host Adapter represents our performance entry level Gen 4.0 adapter solution. It is designed to accommodate a single x4 PCIe connection and employs the Microchip Switchtec® Gen4 PCIe switch to facilitate host-to-IO communication. This adapter is particularly well-suited for linking smaller systems that do not require the complete PCIe 4.0 x16 bandwidth.

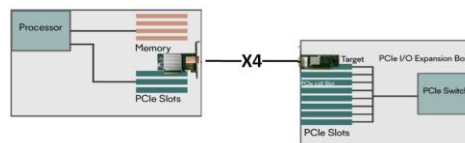
Application developers using the MXH915 host adapter can harness its impressive 64 GT/s performance while benefiting from low latency IO operations.

[www.dolphinics.com/products/MXH915.html](http://www.dolphinics.com/products/MXH915.html)

## Configurations

The MXH915 can be used to connect to a single IO Expansion system using a single SFF-8644 copper or fiber cable:

### Single-Host single IO Expansion



**NOTE:** Please note the MXH915 does not support Transparent Target use. If you need a Transparent Target card, please select the MXH932.

## Topology Configuration



The MXH915 Adapter card comes with the optional eXpressWare Board Management software for simplified monitoring and management.

## Specifications

PCI Express	<ul style="list-style-type: none"> <li>➤ Base Specification 4.0</li> <li>➤ External Cabling Specification 4.0</li> <li>➤ Card Electromechanical Specification 4.0</li> </ul>	Operating Environment	<ul style="list-style-type: none"> <li>➤ Operating Temperature: 0°C - 55°C (32°F - 131°F)</li> <li>➤ Relative Humidity: 5% -95% non-condensing</li> </ul>				
		Altitude vs Temperature	<b>250 LFM</b>		<b>350 LFM</b>		
			45 (°C)	3000m	55 (°C)	3000m	
			35 (°C)	4500m	45 (°C)	4500m	
		25 (°C)	6000m	35 (°C)	6000m		
Application Performance	Up to 7 GBytes/s throughput (system dependent)	Storage Environment	<ul style="list-style-type: none"> <li>➤ Storage Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>➤ Relative Humidity 95% (non-condensing) at 35°C</li> </ul>				
Cut-Through Latency	100ns	Mechanical Dimensions	<ul style="list-style-type: none"> <li>➤ Low profile, half-length, 68.90 mm (2.731 inches) x116.2 mm (4.5 inches)</li> </ul>				
Active Components	Microchip Switchtec® Gen4 PFX Switch	Dolphin Software	Optional Board Management Software				
Max Link Speeds	64 GT/s	Usage Modes	Transparent Host				
Configuration	DIP-switch	Operating Systems	All				
Topologies	Single-nodes Host operation	Regulatory	<ul style="list-style-type: none"> <li>➤ CE Mark</li> <li>➤ FCC Class B</li> <li>➤ UL94V-0 compliant</li> <li>➤ RoHS Compliant</li> </ul>				
Cable Connections	<ul style="list-style-type: none"> <li>➤ SFF-8644 connector for copper/fiber cables</li> <li>➤ Supports single x4 Connector.</li> <li>➤ PCIe 4.0 copper, up to 4m</li> <li>➤ PCIe 4.0 fiber, up to 100m</li> </ul>	Mounting Brackets	<ul style="list-style-type: none"> <li>➤ Full height Bracket installed.</li> <li>➤ The half-height bracket is included with a board shipping box.</li> </ul>				
Maximum power rating	<ul style="list-style-type: none"> <li>➤ 12 Volt: max 1.49A (no port power) 1.62 A (max cable port power)</li> <li>➤ +3.3 Volt: Not connected.</li> <li>➤ +3.3 Volt AUX: 0.03A</li> </ul>	Product Codes	MXH915 – Transparent Host Adapter				
Typical power rating	<ul style="list-style-type: none"> <li>➤ 12 Volt: 0.95 A (no cable port power)</li> <li>➤ +3.3 Volt: Not connected.</li> <li>➤ +3.3 Volt Aux: 0,01 A</li> </ul>	Regulatory Approvals	<ul style="list-style-type: none"> <li>➤ EN 55032:2012</li> <li>➤ EN 55035:2017</li> <li>➤ EN 61000-3-2:2014</li> <li>➤ EN 61000-3-3:2013</li> <li>➤ 47 CFR Part 15, Subpart B (Clause 15.107 and 15.109) in conjunction with ANSI C63.4:2014</li> <li>➤ CISPR 35:2016 Edition 1.0 (CISPR/1/412/CDV) Korean Harmonized standard, KN 35</li> </ul>				