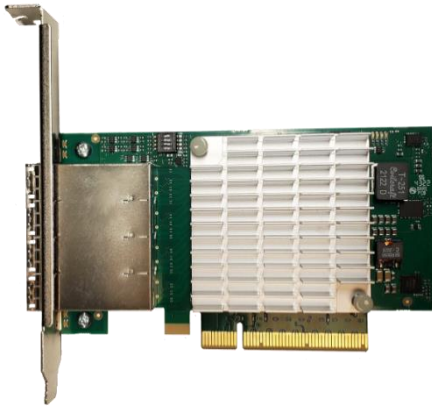


MXH917 PCIe 4.0 x8 Transparent Host Adapter



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
- ✓ Quad SFF-8644 connector
 - PCIE 4.0 copper cable
 - PCIE 4.0 Fiber optic cable
- ✓ Link status LEDs through the face plate
- ✓ Flash for custom system configuration
- ✓ Low Profile, Half Length PCIe form factor
- ✓ 500ns - Cut Through latency.
- ✓ eXpressWare™ Board Management software license

The MXH917 Gen 4.0 PCI Express Transparent Host Adapter represents our Medium-Performance Gen 4.0 adapter solution. It is designed to accommodate a double x8 or quad x4 PCIe IO connection and employs the Microchip Switchtec® Gen 4.0 PCIe switch to facilitate host-to-IO communication. This adapter serves various purposes, such as transparent and hot-add applications, making it particularly well-suited for linking smaller systems that do not require the full PCIe 4.0 x16 bandwidth.

IO Applications using the MXH917 Transparent Host adapter can harness 128 GT/s performance while benefiting from low latency IO operations.

www.dolphinics.com/products/MXH917.html

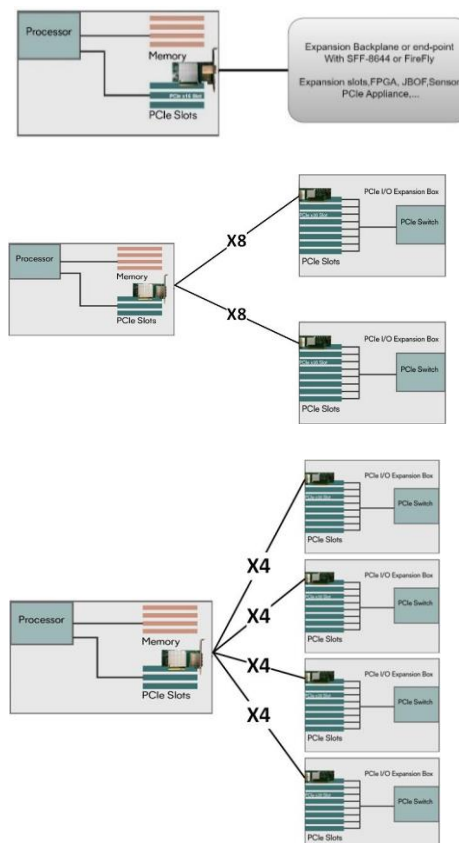
Configurations

The MXH917 enables the establishment of various PCIe network configuration including:

Single Node Network: Connection to expansion systems and IO devices.

Multi-Node Network: By utilising two x8 or four x4, robust networks can be established, providing full PCIe Gen4.0 x8 High-Performance between two or four connected systems.

NOTE: Please note that the MXH917 does not support Transparent Target use. If you need a Transparent Target card, please select the MXH932.



Topology Configurations

The MXH917 Adapter card comes with the optional eXpressWare Board Management software for simplified monitoring and management.

Specifications

PCI Express	<ul style="list-style-type: none"> ➤ Base Specification 4.0 ➤ External Cabling Specification 4.0 ➤ Card Electromechanical Specification 4.0 	Operating Environment	<ul style="list-style-type: none"> ➤ Operating Temperature: 0°C - 55°C (32°F - 131°F) ➤ Relative Humidity: 5% -95% non-condensing 			
		Altitude vs Temperature	250 LFM		350 LFM	
			45 (°C)	3000m	55 (°C)	3000m
Application Performance	<ul style="list-style-type: none"> ➤ Up to 14 GBytes/s throughput (system dependent) 	Storage Environment	<ul style="list-style-type: none"> ➤ Storage Temperature: -40°C to 70°C (-40°F to 158°F) ➤ Relative Humidity 95% (non-condensing) at 35°C 			
Cut-Through Latency	500ns	Mechanical Dimensions	<ul style="list-style-type: none"> ➤ Low profile, half-length, 68.90 mm (2.731 inches) x116.2 mm (4.5 inches) 			
Active Components	Microchip Switchtec® Gen4 PFX Switch	Dolphin Software	Board Management Software			
Max Link Speeds	64GT/s	Usage Modes	Transparent Host-only			
Configuration	DIP-switch	Operating Systems	All			
Topologies	<ul style="list-style-type: none"> ➤ Single node Host operation 	Regulatory	<ul style="list-style-type: none"> ➤ CE Mark ➤ FCC Class B ➤ UL94V-0 compliant ➤ RoHS Compliant 			
Cable Connections	<ul style="list-style-type: none"> ➤ SFF-8644 connector for copper/fiber cables ➤ Supports double x4 Connector. ➤ PCIe 4.0 copper, up to 4m ➤ PCIe 4.0 fiber, up to 100m 	Mounting Plates	<ul style="list-style-type: none"> ➤ Full height plate installed. ➤ The half-height plate is included with a board shipping box. 			
Maximum power rating	<ul style="list-style-type: none"> ➤ 12 Volt: max 1.53A (no port power) 1.79 A (max cable port power) ➤ +3.3 Volt: Not connected. ➤ +3.3 Volt AUX: 0.03A 	Product Codes	<ul style="list-style-type: none"> ➤ MXH917 – Transparent Host Adapter 			
Typical power rating	<ul style="list-style-type: none"> ➤ 12 Volt: 1.05 A (no cable port power) ➤ +3.3 Volt: Not connected. ➤ +3.3 Volt Aux: 0,01 A 	Regulatory Approvals	<ul style="list-style-type: none"> ➤ EN 55032:2012 ➤ EN 55035:2017 ➤ EN 61000-3-2:2014 ➤ EN 61000-3-3:2013 ➤ 47 CFR Part 15, Subpart B (Clause 15.107 and 15.109) in conjunction with ANSI C63.4:2014 ➤ CISPR 35:2016 Edition 1.0 (CISPR/1/412/CDV) Korean Harmonized standard, KN 35 			