



I/O Expansion

The MXH832 adapter is capable of being configured as a host or a target adapter. Figure 1 illustrates the various configurations supported by the MXH832. It can support up to 4 PCIe expansion units without an external switch. As a host adapter, the MXH832 connects to PCIe targets via MiniSAS HD / SFF-8644 cables. It can connect to other MXH832 boards as a target or to custom target adapters. The MXH832 configurations support x16, x8, or x4 connections.

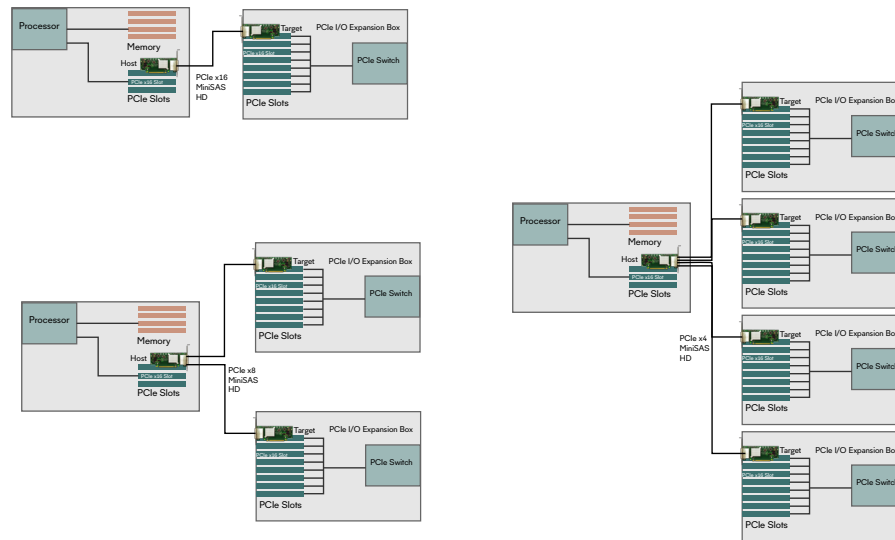


Figure 1:MXH832 I/O Expansion Configurations

Specifications

Link Speeds	32 Gb/s per port / 128 Gb/s	Operating Environment	Operating Temperature: 0°C - 50°C (32°F - 122°F) Air Flow: TBD
Application Performance	<170 nanoseconds cut through latency port to port		Relative Humidity: 5% - 95% (non- condensing)
Active Components	Microsemi PFX Gen 3 PCIe Switch	Configuration	DIP-switch Host/ Target/ x4,x8,x16 link/ safe boot
PCI Express	Base Specification 3.1 PCI-SIG Cable specification 3.0 (preliminary)	Software	eXpressWare™ Board Management Utility
Topologies	Transparent Host/Target up to 4 devices	Product Codes	MXH832 Host/Target Adapter
Cable Connections	Four x4 iPass®+ HD / MiniSAS-HD /SFF-8644 copper cables, 0.5 - 9 meters		
Power Consumption	Max 24watts including AOC		
Mechanical Dimensions	Low profile, Half Length - 68.90 mm (2.731 inches) x 167.65 mm (6.600 inches)		
PCIe Bracket	Full height plate mounted Half height plate included		
Regulatory	CE Mark FCC Class A UL94V-0 compliant RoHS Compliant		