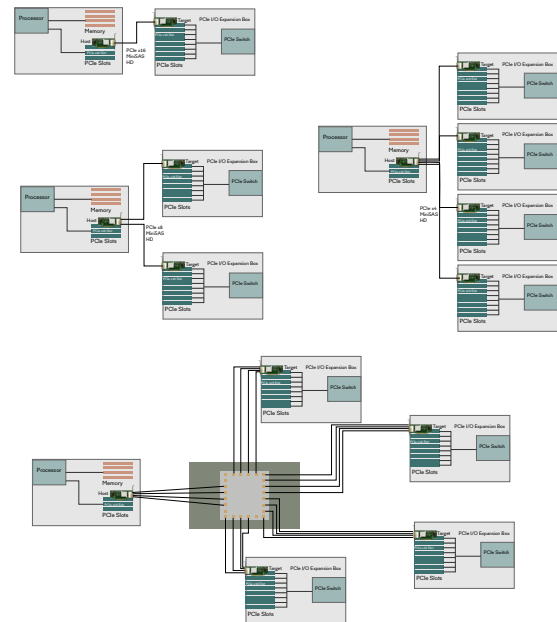# PCIe Expansion

Transparent Expansion

Dolphin offers a line of standard host and target adapters for use in traditional IO expansion. These cards require no software and rely on standard PCI Express bridging technology to connect downstream targets. Dolphin adapter cards can be used to connect expansion boxes or other standard PCIe IO boxes, such as JBOFs, cameras, or sensors. Dolphin also offers a transparent board management software, that manages and monitors our transparent cards. This software provides reporting of firmware revision, board serial number, active configuration setting, and PCIe link and host slot status.

Our transparent offerings include host and target adapters along with switches. This figure illustrates various configurations possible with our hardware.

Benefits

- Gen3 Host and Target adapters
- Support for large topologies using PCIe Switch boxes
- Board and status monitoring
- iPass, MiniSAS-HD, and PCIe 3.0 cable support
- Fiber optic support

Features

Fiber optic support up to 100 meters	Gen3 and Gen2 adapters, Gen4 under development
iPass, MiniSAS-HD and PCIe 3.0 cable support	Transparent board management software
PCIe link and host slot error monitoring	Automatic link training for both speed and width - (Gen3 -Gen1, x16 -x1)
Advanced EEPROM configurations	Long cable support