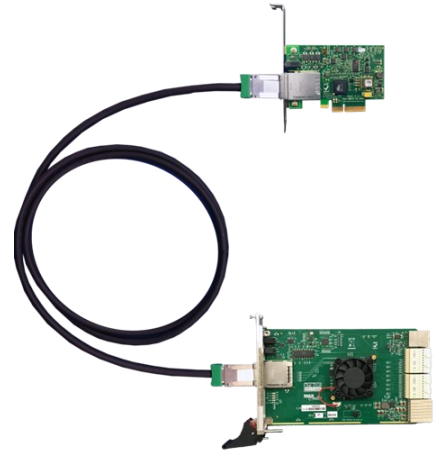# OSS
ONE STOP SYSTEMS

PCIe x4 Host to CPCIe Kit
Part Number: OSS-KIT-EXP-6002

FEATURES

- The host adapter card inserts into any PCI Express x4 slot on the host motherboard.
- The high speed PCIe cable allows data transfers to and from the host up to 20Gb/s.
- The 3U CPCIe3 target expansion link board installs in a system slot of CPCIe backplane to provide operation of the downstream I/O boards.
- Software transparent, no drivers required.

PCIe expansion kit with upstream PCIe x4 switch-based host cable adapter, downstream 3U CPCIe expansion link board, and PCIe x4 2M cable.

SPECIFICATIONS

PCIe x4 Switch-Based Host Cable Adapter	
Form Factor	PCIe half-card
Operating Temperature	0˚C to +50˚C environment
Storage Temperature	-40˚C to 85˚C
Operating Humidity	10% to 90% relative humidity non-condensing
Storage Humidity	5% to 95% relative humidity non-condensing
Power	4W
Connectors	PCIe x4 cable connector PCIe x4 edge connector
Industry Specifications	PCIe External Cabling Specification, Rev. 1.0 PCI Express™ Card Electromechanical Specification, Rev. 2.0 PCI Express ® Base Specification, Rev. 2.0 ATX Specification, Version 2.2
Switch	PEX8609 Gen 2 (5.0 GT/s) 8 lane PCIe Switch
Bracket	HIB35 x4 add-in card bracket Standard and low profile brackets available Link Status LEDs
Agency Compliance	FCC Class A CE RoHS

CPCIe3 x4 Expansion Link Board

Form Factor	PCIMG EXP. 0 system slot compliant. Single shot
Dimensions	(H x L) 3.937 x 6.299 in (100 x 161 mm), 1 slot wide
Switch	PLX PEX8733 32 lane enhanced switch including • Configurable lane configuration based on PXIe or CPCIe backplane • Spread spectrum clock isolation • DMA controller
External Interface	One x4 PCIe cable input • PCI-SIG PCI Express Cable Rev 2.0 compliant
Downstream Interface	16 lanes of PCI Express on the backplane connectors. The lanes form two or four links to the backplane through the XP2 and XP3 connectors per the PICMG EXP.0 specification. The following link modes are automatically selected by the backplane as follows: • Two link mode: 2 x8 links (per backplane capabilities) • Four link mode: Four x4 PCIe links
Front Panel Connector	Molex 75586-0010
Front Panel Indicators	4 backplane link-active indicators (green) 2 or 4 link mode + cable link (green)
Power Consumption	10W typical +12V @ .5, 3.3V @ 1.25A, 5Vaux @ 2.5mA
Temperature Range	0° to 50°C
Relative Humidity	10 to 90% non-condensing
Agency Compliance	FCC Class A CE RoHS 6 of 6