

PCIe OVER CABLE

The HIGH SPEED universal serial bus



High speed CPU to I/O!

5 to 80Gb/s.

PCIe over cable is now the standard for high speed connectivity.

Vastly higher performance than USB or Ethernet.

This is USB on steroids!

Simple, Reliable, Cost Effective!

Easy installation of adapters and cables.

No software to install means no overhead and low latency.

Proven reliability across a multitude of applications.

Variety of adapters to suit price-performance needs.

ONE STOP
SYSTEMS

www.onestopsystems.com

Cable Adapters



PCIe x1 Gen 2 Host Cable Adapter
 OSS-PCIe-HIB25-x1
 PCIe x1 add-in card
 Data transfer speeds up to 5Gb/s
 One PCIe x1 cable connector



PCIe x4 Superswitch Cable Adapter
 OSS-PCIe-HIB4-x4
 NT port plus ExpressNet driver allows
 PC to PC communication



PCIe x4 Gen 2 Host Cable Adapter
 OSS-PCIe-HIB25-x4
 PCIe x4 add-in card
 Data transfer speeds up to 20Gb/s
 One PCIe x4 cable connector



PCIe x4 Host Switch Cable Adapter
 OSS-PCIe-HIB5-x4
 Used in I/O expansion or Superswitch with
 ExpressNet for PC to PC communication
 Four PCIe x4 cable connectors



PCIe x8 Gen 2 Host Cable Adapter
 OSS-PCIe-HIB25-x8
 PCIe x8 add-in card
 Data transfer speeds up to 40Gb/s
 One PCIe x8 cable connector



PCIe x4 Expansion Cable Adapter
 OSS-PCIe-ECA-x4
 Transfers the PCIe bus from a x4 cable connector
 to a x4 slot with a x16 connector.
 Stand-alone board installs in small space



PCIe x16 Gen 2 Host Cable Adapter
 OSS-PCIe-HIB25-x16
 PCIe x16 add-in card
 Data transfer speeds up to 80Gb/s
 One PCIe x16 cable connector



CPCIe x4 Host Cable Adapter
 OSS-CPCIe-3U-HIB2-x4
 Installs in a CPCIe I/O slot to connect to
 a downstream PCIe device
 One PCIe x4 cable connector



**PCIe x4 Gen 2 Host
 Cable Adapter with Switch**
 OSS-PCIe-HIB35-x4
 PCIe x4 add-in card
 Data transfer speeds up to 20Gb/s
 Operates in upstream or downstream mode



CPCIe x4 Expansion Board
 OSS-CPCIe-3U-ELB-x4
 Installs in a CPCIe system slot of
 a downstream CPCIe system
 One PCIe x4 upstream cable connector
 One PCIe x4 downstream cable connector



PCIe x4/x8 Gen 2 Expansion Board
 OSS-SHB-ELB-x4/x8-2.0
 Installs in system slot of a PCIe Gen 2 backplane
 Data transfer speeds up to 40Gb/s
 One PCIe x4 and x8 upstream cable connector



CPCI Expansion Bridge Board
 OSS-CPCI-3U-HEB2-x4
 Installs in CPCI/PXI system slot
 Expands to 7 peripheral slots



XMC x8 Host Cable Adapter
 OSS-XMC-HIB25-x8
 Installs in an XMC connector
 Data transfer speeds up to 40Gb/s



CPCIe x4 Switch Board
 OSS-3U-IOe-SW
 Installs in CPCIe witch slot
 One PCIe x4 cable connector

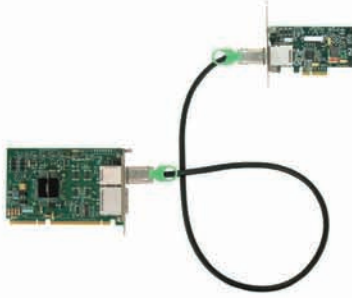


PCIe x1 ExpressCard Cable Adapter
 OSS-PCIe-HIB2-EC-x1
 ExpressCard 34 add-in card
 Data transfer speeds up to 2.5Gb/s
 One PCIe x1 cable connector

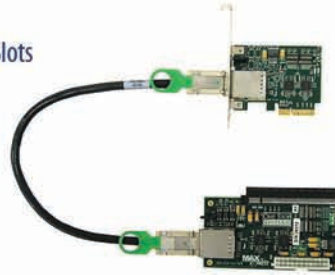


VME Expansion Bridge Board
 OSS-VME64-EBB-x4
 PCIe to VME bridge
 Installs in system slot of a VME64 backplane
 One PCIe x4 cable connector
 Dual PMC 64/100 expansion slots

Expansion Kits



PCIe x4 Server to I/O Expansion Slots
OSS-KIT-EXP-1500
Kit includes:
PCIe x4 cable adapter
Expansion board
One PCIe x4 2m cable



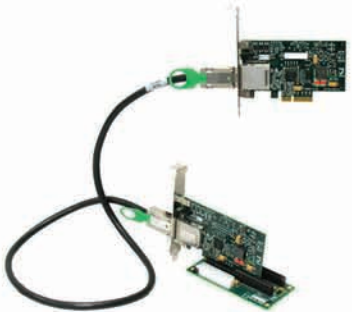
PCIe x4 Server to Single I/O Card
OSS-KIT-EXP-2000
Kit includes:
PCIe x4 cable adapter
Expansion cable adapter
One PCIe x4 2m cable



PCIe x8 Server to I/O Expansion Slots
OSS-KIT-EXP-7500
Kit includes:
PCIe x8 cable adapter
Expansion board
One PCIe x8 2m cable



PCIe x4 Server to CPCI Expansion Slots
OSS-KIT-EXP-4500
Kit includes:
PCIe x4 cable adapter
3U CPCI expansion board
One PCIe x4 2m cable



PCIe x4 Server to Single I/O Card
OSS-KIT-EXP-3500
Kit includes:
PCIe x4 cable adapter
PCIe x4 target cable adapter
Two slot backplane
One PCIe x4 2m cable



PCIe x4 Server to CPCI Expansion Slots
OSS-KIT-EXP-6000
Kit includes:
PCIe x4 cable adapter
CPCI expansion board
One PCIe x4 2m cable



PCIe x8 Server to Single I/O Card
OSS-KIT-EXP-8000
Kit includes:
PCIe x8 cable adapter
PCIe x8 target cable
Two slot backplane
One PCIe x8 2m cable



PCIe x4 Server to VME Expansion Slots
OSS-KIT-EXP-6400
Kit includes:
PCIe x4 cable adapter
6U VME expansion board
One PCIe x4 2m cable



PCIe x16 Server to Single I/O Card
OSS-KIT-EXP-9000
Kit includes:
PCIe x16 cable adapter
PCIe x16 target cable adapter
Two slot backplane
One PCIe x16 2m cable

Switches



Ten-port PCIe x4 Switch
OSS-PCIe-1U-SW-x4-2.0
Supports either a x16 or a x4 connection to server
Eight PCIe x4 Gen 2 connectors



Eight-port PCIe x1 Switch
OSS-PCIe-1U-SW-x1-2.0
One PCIe x1 Gen 2 upstream cable connector
Seven PCIe x1 downstream cable connectors

Cables



PCIe x1 Cable
OSS-PCIe-CBL-x1
5Gb/s bandwidth for transfer speeds
Available in 1, 2, 3, 5, and 7 meter lengths



PCIe x16 Cable
OSS-PCIe-CBL-x16
80Gb/s bandwidth for transfer speeds
Available in 1, 2, 3, 5, and 7 meter lengths



PCIe x4 Cable
OSS-PCIe-CBL-x4
20Gb/s bandwidth for transfer speeds
Available in 1, 2, 3, 5, and 7 meter lengths



PCIe Active Optic Cable
OSS-PCIe-CBL-ACT-x4
20Gb/s bandwidth for transfer speeds
Available in 10 and 100 meter lengths



PCIe x8 Cable
OSS-PCIe-CBL-x8
40Gb/s bandwidth for transfer speeds
Available in 1, 2, 3, 5, and 7 meter lengths



PCIe x1 to x4 Cable
OSS-PCIe-CBL-x1-x4-2m
5Gb/s bandwidth for transfer speeds
Available in 1, 2, 3, 5, and 7 meter lengths

Expansion Enclosures



1U GPU Expansion Enclosure
OSS-PCIe-1U-ENCL-EXP
Slots: two or four x16
Ideal for GPU and NAND Flash boards
System monitor with remote access
PCIe x16 Gen 2 host cable adapter
850W power supply
Superior cooling



4U Rugged Expansion Enclosure
OSS-PCIe-4U-EXP-2001
Slots: seventeen x4, two x8
PCIe x8 host cable adapter



2U GPU Expansion Enclosure
OSS-PCIe-2U-ENCL-EXP
Slots: four or eight x16
Ideal for GPU and NAND Flash boards
System monitor with remote access
One or two PCIe x16 Gen 2 host
cable adapters
1700W power supply
Superior cooling



**4U Instrumentation
Expansion Enclosure**
OSS-CPCIe-4U-EXP-INST-HYB
Slots: six CPCIe, four CPCI
PCIe x4 adapter card for host PC
Dual 300W power supply



Tower GPU Expansion Enclosure
OSS-PCIe-TW-ENCL-EXP-2-1
Slots: two x16, one x8, two x4
Ideal for GPU and NAND Flash boards
PCIe x16 Gen 2 host cable adapter
750W power supply
Superior cooling



5U Hybrid Enclosure
OSS-CPCIe-5U-EXP-HYB
Slots: six CPCIe, four CPCI
PCIe x4 adapter card for host PC
Dual 300W power supply
Superior cooling



4U PCIe Gen 2 Expansion Enclosure
OSS-PCIe-4U-EXP-2022
Slots: seventeen x4, two x8
PCIe x8 Gen 2 host cable adapter



8U Hybrid Enclosure
OSS-CPCIe-8U-EXP-HYB
Slots: six CPCIe, four CPCI
PCIe x4 adapter card for host PC
Four 300W power supply
Superior cooling

Expansion Backplanes



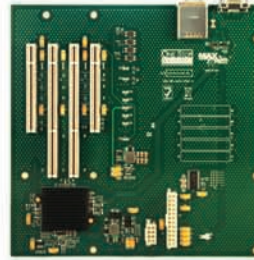
PCIe x16 Gen 2 Backplane
OSS-PCIe-BP-2019
Two PCIe x16 Gen 2 slots
Ideal for testing I/O boards or remotely operating one I/O board
Data transfer speeds up to 80Gb/s



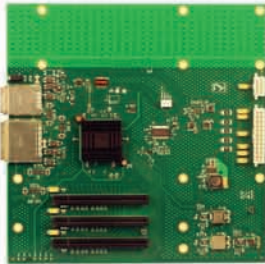
PCIe/PCI-X Expansion Backplane
OSS-PCIe-BP-2020
Four PCIe x8 Gen 2 slots
Three PCI-X slots
PCIe x4 and PCIe x8 upstream cable connectors



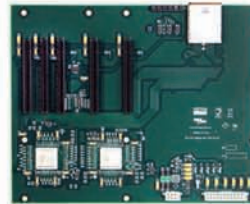
PCIe x4 MicroATX Expansion Backplane
OSS-PCIe-BP-2011
Three PCIe x4 slots with PCIe x1 electrical connection
One PCI 32/33 slot
One PCIe x4 cable upstream cable connector



PCIe x1/x4 MicroATX Expansion Backplane
OSS-PCIe-uATX-BP-2021
Two PCI 32/66 slots
Two PCI 64/100 slots
PCIe x1 and PCIe x4 upstream cable connectors



PCIe x4/x8 MicroATX Expansion Backplane
OSS-PCIe-uATX-BP-2018
Three PCIe x16 slots with PCIe x8 electrical connection
PCIe x4 and PCIe x8 upstream cable connectors
Can be resized in small form factor



PCIe x16 Gen 2 Expansion Backplane
OSS-PCIe-BP-2023
Two PCIe x16 Gen 2 slots
One PCIe x8 Gen 2 slot
Two PCIe x4 Gen 2 slots
PCIe x16 upstream cable connectors

Why Choose One Stop Systems?

One Stop Systems (OSS) designs and manufactures a broad selection of embedded computing systems and components for high performance computing (HPC), data center, and defense/security applications. OSS pioneered PCIe over cable products and has been first to market with many of the PCIe cable adapters, expansion kits, and expansion systems available today. OSS has an extensive engineering resource experienced and trained in PCIe design, manufacture, and test and customizes our products to our customers' specific requirements. Custom and semi-custom products have long been OSS' core capability, with over 500 products designed for OEM customers who continue to purchase these products over time. OSS has a proven record of producing high quality products through superior engineering, ISO9001-2008 quality-driven production, and responsive pre- and post-sales.

OSS co-authored the specifications and was first to market with PCIe cable adapters, switch products, expansion systems, and PCIe networking interfaces. OSS was a founding member of several standards organizations' technical committees and provides PCIe over cable products in several new form factors such as PCIe 1.0a, PCIe 2.0, XMC modules, CompactPCI Express and PXI-MC. OSS continues to pioneer industry standards vital to this technology. These industry standards include the PCI-SIG PCIe cable standard, several PCI Industrial Computer Manufacturing Group (PICMG) standards including the EXP.0 standard for backplane PCIe switching as well as the PXI-MC specification directly standardizing PCIe networking over a backplane or cable. Call us today with your requirements and visit us at www.onestopsystems.com.

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