PCIe x8 Gen2 Cable Adapter

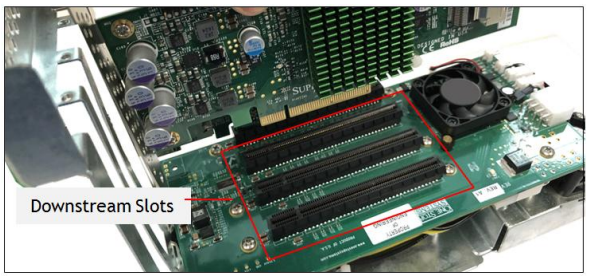
Model: OSS-PCIe-HIB25-x8

Installation Guide

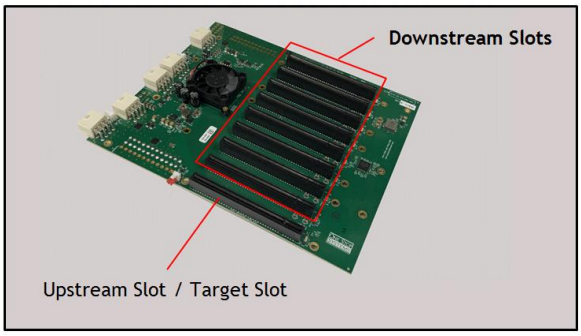
SKU: OSS-PCIe-HIB25-X8

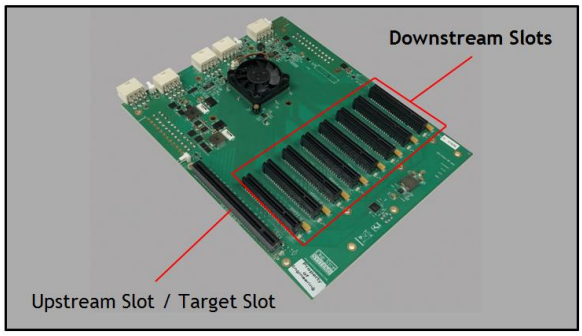
2.5 Install PCIe card

Plug-in your 3rd party PCIe card in the expansion backplane. Use the downstream slot of the OSS backplane. See photos below.



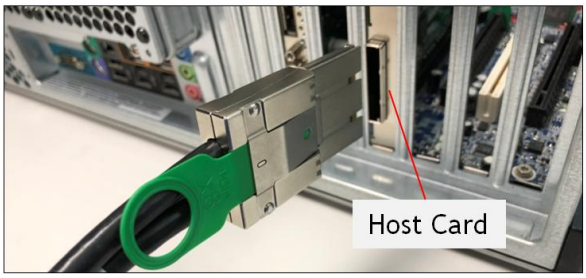






2.6 Install link cable

- Connect the PCIe iPass x8 cable between the host and target cards. Plug in the cable to the host card.
- Plug in the other end of the cable to the target card. Make sure the cable is firmly latched in to the cable connectors of the card.



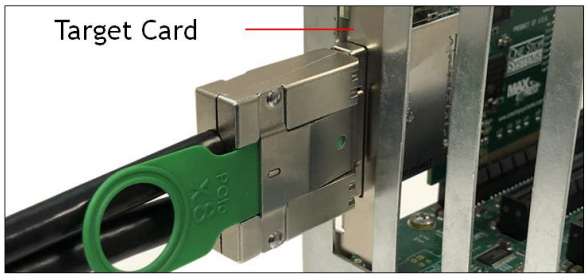
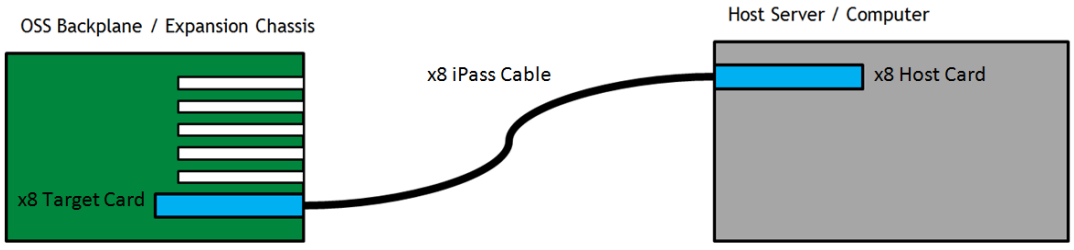


Photo below is a block diagram of an OSS expansion unit linked to a host server / computer.

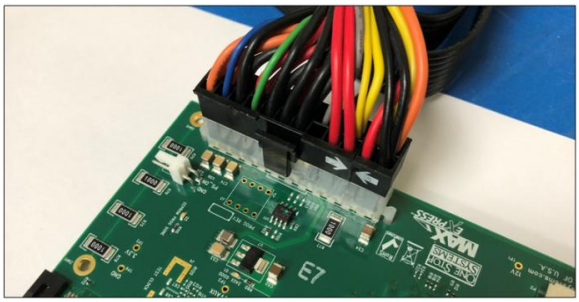


2.7 Connect ATX Power Supply



If you are using an expansion chassis, the power supply is already part of the unit. You can skip this step.

If you are using an expansion backplane, plug-in the ATX power connector on the OSS board



Connect power to the PSU and turn the switch to ON position.



2.8 Power ON the system

- Turn On the main power of the host computer.
- Start the computer by pushing the power button.
- Upon powering ON the Host system, it will send a sideband signal to the Target card triggering the target expansion system to turn ON.

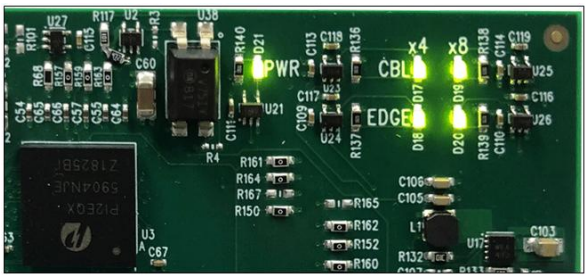


If the expansion unit or the HIB card are not powering ON, check the link cable make sure it is firmly connected. The target and host card must be fully seated in the PCIe slot in order to work correctly.

3 Verify Hardware

A operational host and target cards will have the following LEDs on the board illuminated.

1. PWR LED
2. x4 CBL and EDGE LEDs
3. x8 CBL and EDGE LEDs

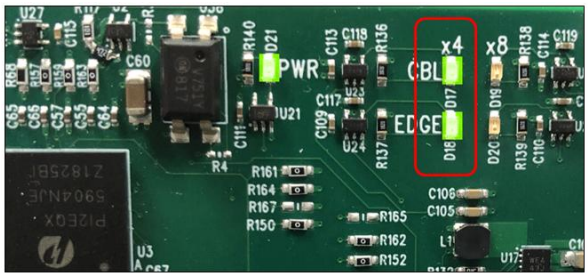


3.1 LED Definition

PWR – Board has power
CBL – Signal detect on cable*
EDGE – Signal detect on card edge*

*Signal detect does not mean it has a link, but rather it identifies there is a signal on the card edge. If the link does not appear to be stable, it could mean that there is a compliance pattern being generated by the PCIe device interfacing with this card.

If the board is operating on x4 mode, x4 CBL and EDGE are illuminated. This is indicative of a x4 slot PCIe slot (electrical) where the host or target card is installed.



3.2 LED Configuration Explanation

D17	D19	D18	D20	Indication
0	0	0	0	No valid signal from root or endpoint
0	0	0	1	NA
0	0	1	0	Root is sending valid training signals on either lane 0 only (x1) or lanes 0-3 (x4) to the target; no valid signal coming from endpoint.
0	0	1	1	Root is x8 and is sending valid training signals on lanes 0-7 to the root; no valid signal coming from endpoint.
0	1	0	0	NA
0	1	0	1	NA
0	1	1	0	NA
0	1	1	1	NA
1	0	0	0	Endpoint is sending valid training signals on either lane 0 only (x1) or lanes 0-3 (x4) to the root; no valid signal coming from root.
1	0	0	1	NA
1	0	1	0	Valid signal levels from both root and endpoint on either lane 0 only (x1) or lanes 0-3 (x4)
1	0	1	1	Endpoint is sending valid signals on either lane 0 only (x1) or lanes 0-3 (x4) to the root, but root is sending valid signals on lanes 0-7 (x8) (root and endpoint can't agree on lane width)
1	1	0	0	NA
1	1	0	1	NA
1	1	1	0	Root is sending valid signals on either lane 0 only (x1) or lanes 0-3 (x4) to the endpoint, but endpoint is sending valid signals on lanes 0-7 (x8) (root and endpoint can't agree on lane width)
1	1	1	1	Valid signal levels from both root and endpoint on lanes 0-7 (x8)

4 Software Installation

No software or driver is required for the Host Adapter card.

5 How to Get More Help

You can visit the Technical Support FAQ pages on the Internet at https://www.onestopsystems.com/support

5.1 Contacting Technical Support

Our support department can be reached by phone at 1 (760) 745-9883. Support is available Monday through Friday, 8:00 AM to 5:00 PM PT. When contacting Technical Support make sure to include the following information:

1. Exact and correct serial #
2. Service Ticket or Case # (if you already submitted an online request)
3. Computer Type & Model: Operating System
4. Make & Model of PCI/PCIe cards: Application
5. Problem description

When submitting an online technical support request always provide a valid working e-mail address, phone number, shipping address and proper contact name. Check your e-mail for an automated response containing the case # and updates. You can also visit our web site at: https://www.onestopsystems.com/support for a quick response, use the Technical Support and RMA Request Form available in the Support Section of the website. Simply complete the form with all required information. Please make sure that your problem description is sufficiently detailed to help us understand your problem.

Shipping or Transporting of Expansion Unit with PCI / PCIe cards
Any PCIe cards in **should be removed** (or not to be installed) prior to shipment to avoid or prevent possible damage. Note: Expansion board and PCIe / PCI cards that arrive damaged in shipment will not be covered under warranty.

5.2 Returning Merchandise

If factory service is required, a Service Representative will give you a Return Merchandise Authorization (RMA) number. Put this number and your return address on the shipping label when you return the item(s) for service. Please note that One Stop Systems WILL NOT accept COD packages, so be sure to return the product freight and duties-paid. Ship the well-packaged product to the address below:

Attention:RMA # _____, One Stop Systems
2235 Enterprise Street, #110
Escondido, CA 92029
USA

It is not required, though highly recommended, that you keep the packaging from the original shipment of your product. However, if you return a product for warranty repair/ replacement or take advantage of the 30-day money back guarantee, you will need to package the product in a manner similar to the manner in which it was received from our plant. We cannot be responsible for any physical damage to the product or component pieces of the product (such as the host or expansion interfaces for the expansion chassis) that are damaged due to inadequate packing. Physical damage sustained in such a situation will be repaired at the owner's expense in accordance with Out of Warranty Procedures. Please, protect your investment, a bit more padding in a good box will go a long way to insuring the device is returned to use in the same condition you shipped it in. Please call for an RMA number first.

5.3 Online Support Resources

As a product user and customer, listed below are our Online Support Resources

https://www.onestopsystems.com/support provides Knowledgebase Articles such as troubleshooting methods, compatibility, FAQ, documentation, and product technical information.

If you need technical support, product assistance or have a technical inquiry we encourage you to submit it on-line using our Technical Support Form. If you need to send a unit for repair or diagnostic evaluation, fill out our RMA (Return Material Authorization) online request form.

- https://www.onestopsystems.com/support



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