

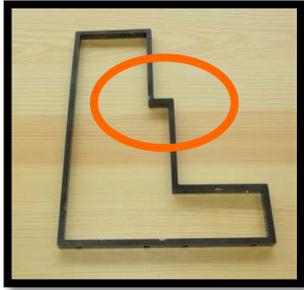
GPU-ORIENTED PCIe EXPANSION CLUSTER ASSEMBLY INSTRUCTIONS



PACKAGE ITEMS

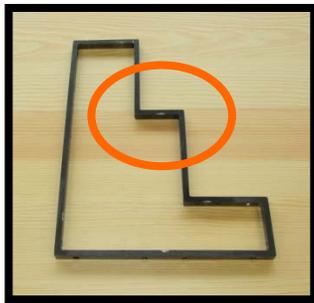
1. Side Panel, Left. (1)

[has one hole on middle stair]



2. Side Panel, Right. (1)

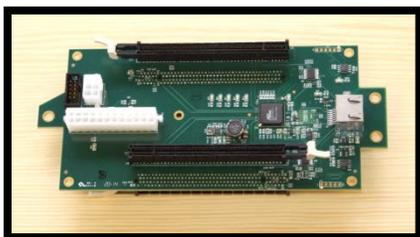
[has two holes on middle stair]



3. Base Panel (1)



4. Backplane (1) [top view]



5. Hex “L” Wrench (1)



6. Screws, “M6” (4)

and split lock washers (4)

[for the Cluster’s base panel]



7. High-cap leveling mounts (4), nuts

(4), and split lock washers (4)

[“Legs” of the Cluster]



8. Screws, “M4 Philips” (4)

[1 per GPU, for bracket mount]



9. Screws, “M4 Philips” (3)

[to secure the backplane]



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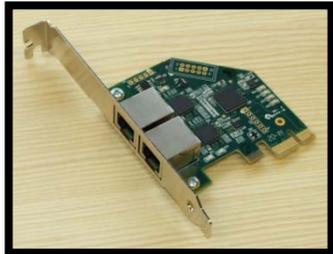
10. Screws, long, "M4 Philips" (2)

[for joining 2 clusters together]



11. Host board (single/dual/quad) (1)

(MiniPCIe, ExpressCard®)



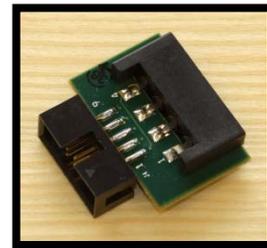
12. PCIe cable (1)



13. Power control cable, 10-pin, flat (1)



14. Power adapter (1)

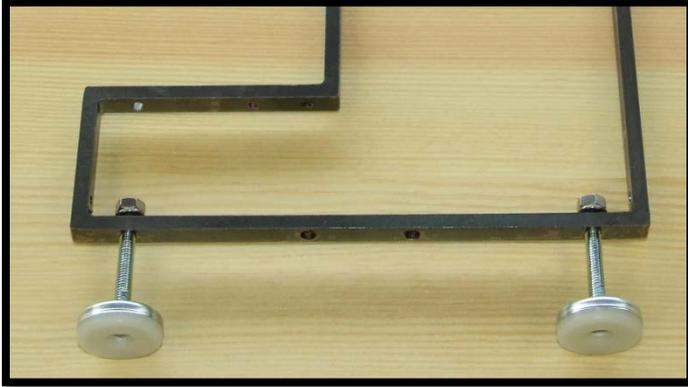


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ASSEMBLY PART 1: STEP-BY-STEP

1) Legs:



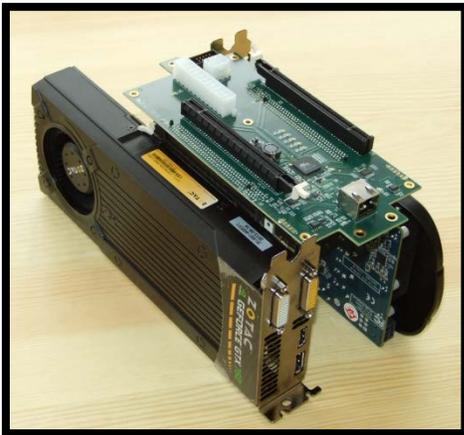
Take the two side panels (items #1 and #2), and the legs (item #7), and attach as shown. Height may be adjusted as desired.

2) Base:



Attach the base (item #3) to the left side panel (item #1) with two screws (item #6).

3) GPU 1 & 2:

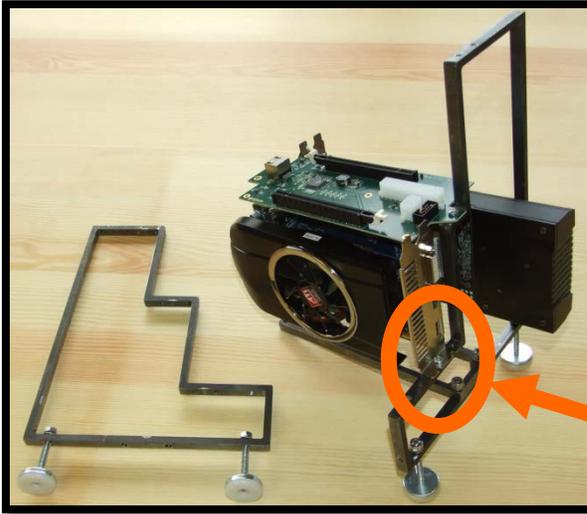


Attach two GPUs to the bottom of the backplane (item #4).

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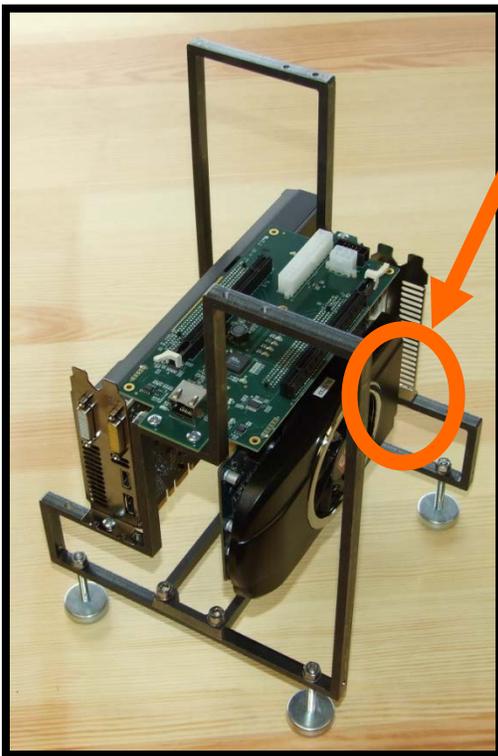


4) Backplane:



Attach the backplane to the left panel (item #1). Align holes as shown. Use 1 screw (item #9) to attach backplane, and 1 screw (item #8) for GPU bracket. Do not tighten completely. Support the free end of the backplane, to avoid putting pressure on the x16 slots in use.

Note: GPU's bracket should be placed on top of the side panel's bottom stair.



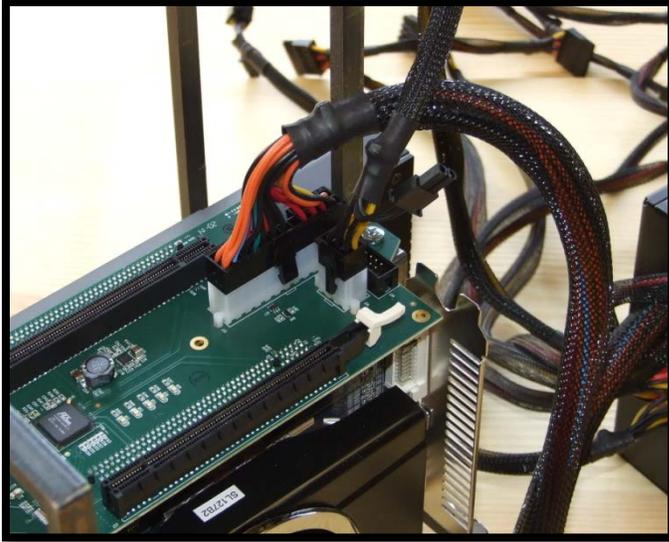
Attach the right side panel (item #2) as shown, using procedure from Step 4. Do not tighten completely. (Use 2 screws (item #9) for the backplane, & 1 screw (item #8) for each GPU bracket.)

The base (item #3) is screwed in place last, using two remaining screws (item #6).

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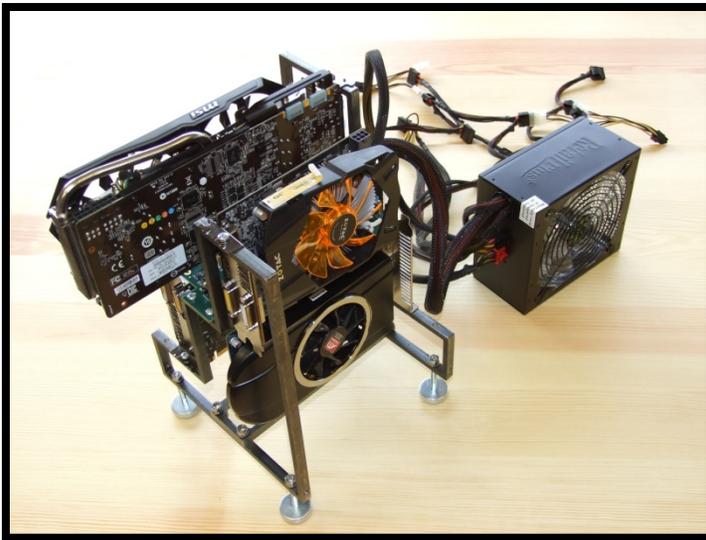


5) Power Cables:



Connect cluster's ATX 24-pin power cable & ATX 6-pin power cable to the backplane's power connectors (top-side).

6) GPU 3 & 4: Attach the 3rd and 4th GPUs, screw them into place. Do not tighten completely.



7) Tighten all screws; tighten the base screws last.

----- Don't forget! -----

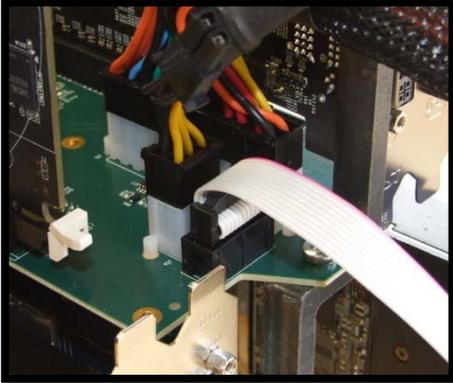
Additional auxiliary power cabling for your GPUs will vary. Don't forget to plug it into every GPU, as appropriate.

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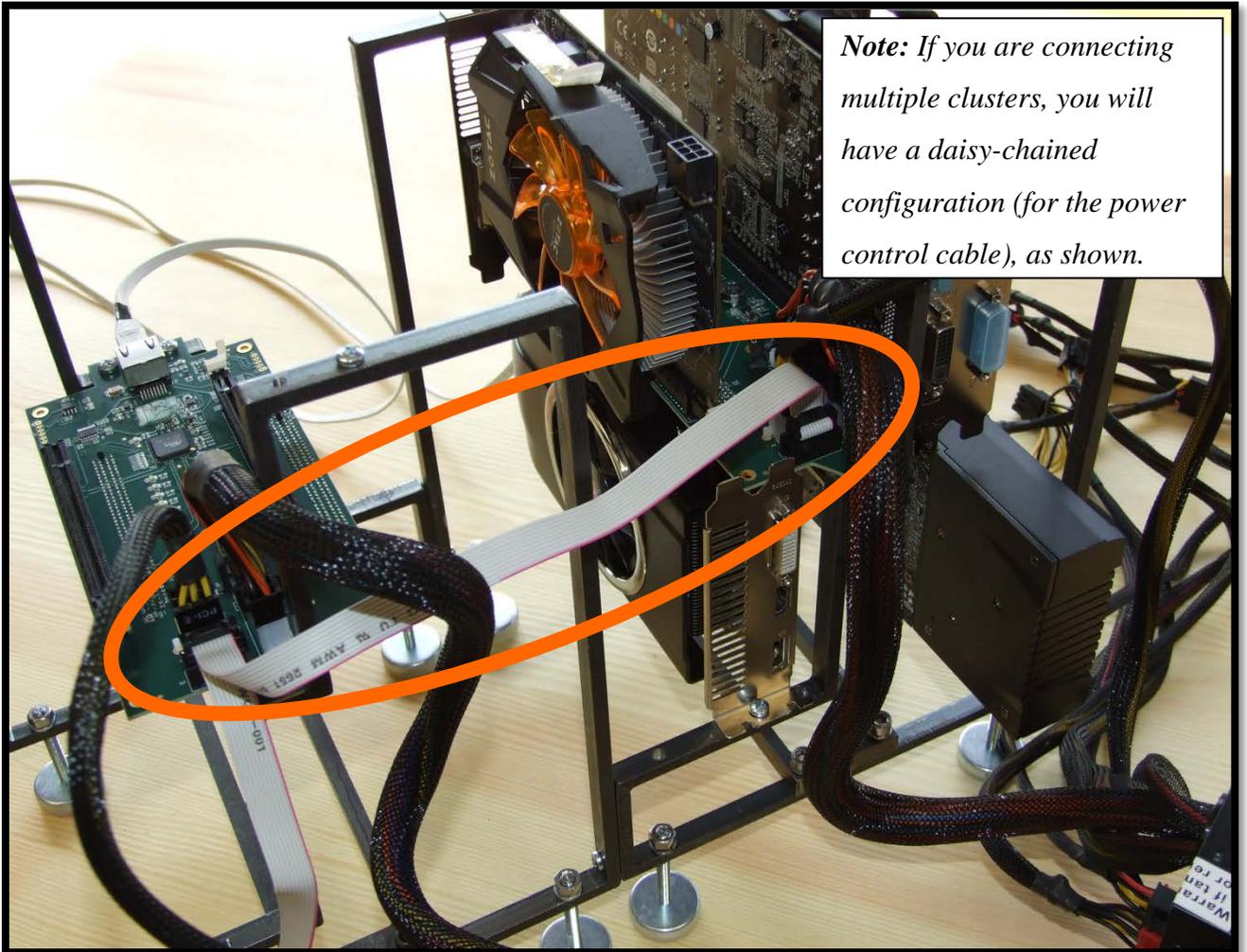


ASSEMBLY PART 2: CONNECTION TO HOST SYSTEM.

1) 10-pin cable:



Attach the 10-wire flat power control cable (item #13) to the backplane and the power adapter (item #14).

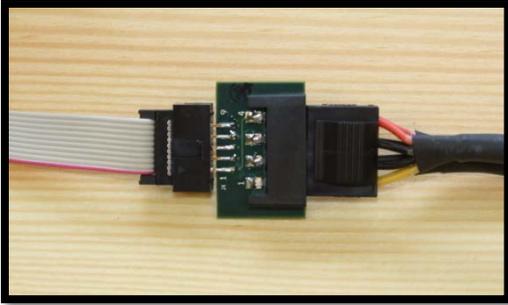


Note: If you are connecting multiple clusters, you will have a daisy-chained configuration (for the power control cable), as shown.

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2) Host ATX PSU Connection:



Connect 4-pin “hard drive” connector of the power adapter (item #14) to the host computer’s ATX power supply unit.

3) PCIe Cable:



Attach the Ethernet cable (item #12) to the backplane & host board (item #11).

- 4) **Host board:** Connect it to your computer’s PCIe slot (or MiniPCIe or ExpressCard® slot, depending on your product version).

POWER ON/OFF PROCEDURE: Please read [Hardware Manual](#)

(Download also available on Amfeltec’s product page, on the “Downloads” tab.)