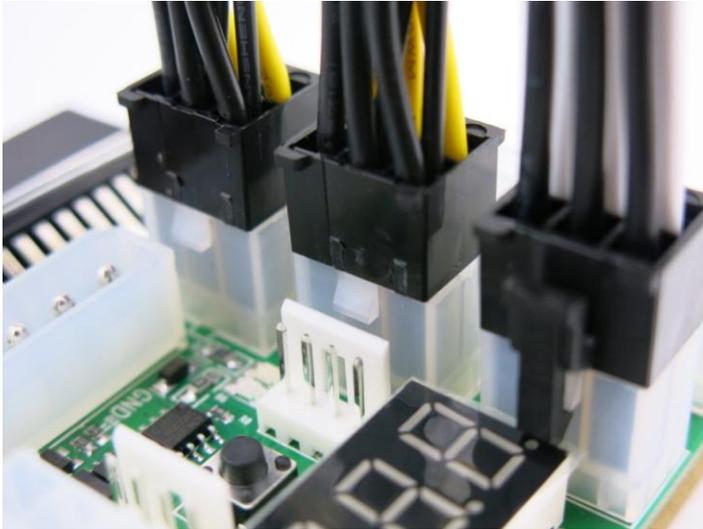


X20 Breakout Board Manual

Our [Rev:20B X-Adapter](#) is the first ever breakout board designed for any Supermicro server power supplies. It is built with a lot of the same features as our X6B through X12 breakout boards and those features are cross-compatible between our boards.



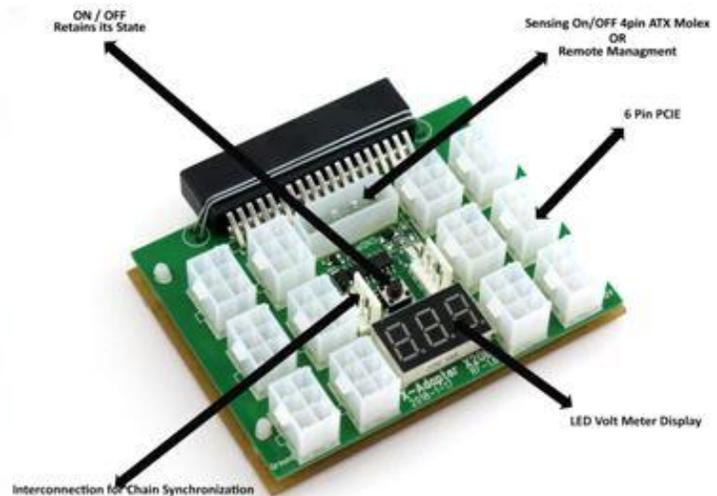
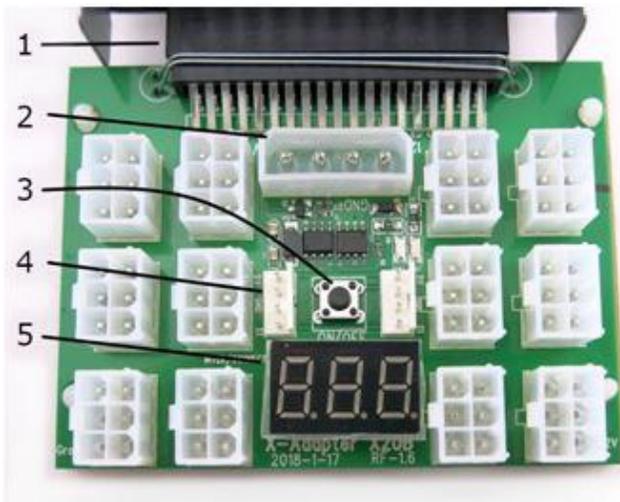
First Batch Known Issue

The two PCIe ports to the right of the molex and second 4pin connector were placed too close by our factory. The ports are still usable if the clips are removed from the PCIe cable as pictured. This issue will be resolved with our second batch of X20 breakout boards.

Watch all features in action here:

<https://www.youtube.com/embed/KYPKXVuHFWc>

Breakout Board Features



1: **Connector slot.** When connecting the breakout board to your PSU we recommend sliding in one corner of the slot from the PSU and then sliding the rest of the power bar into the connector slot. (Lubricant is not required, but recommended. Apply on the PSU power bar and wipe away any excess prior to connecting the adapter.)

2: **4 pin Molex input.** This is for syncing on/off standard ATX PSU with our server PSU. A second feature of the molex input is to allow remote access to power on/off your power supplies via our [remote management module](#).

3: **Electronic power button.** Even though this is an electronic power button, the board retains its state in the event of a power loss.

4: **Two 4-pin 5v inputs ports.** The 4-pin ports will allow you to sync one of our breakout board adapters to another of our breakout board using our 4-pin cable. **DO NOT CONNECT ANY OTHER CABLE TO THIS PORT AS IT WILL DAMAGE THE BREAKOUT BOARD.**

5: **LED voltage display.** This will provide you with the current voltage output of the power supply.

Interconnect Sync Instructions

Every order containing 2 or more breakout boards will include a free [interconnect sync cable](#) to chain each breakout board together. The cable is approximately 19 inches long.



These breakout boards have two 4-pin input ports; you can sync any amount of power supplies together by connecting the 4-pin port to the next breakout board's 4-pin port and so on. We have tested up to 20 linked PSUs.

By syncing the power supplies, you will be able to power on/off all power supplies in the chain by pressing the power button on any one of the breakout boards in the chain. In the event that one power supply gives out and is no longer working, the sync will not be interrupted; all working power supplies will still power on/off together.

Dual Fault Protection Instructions

Dual fault protection is the ability to link two power supplies together in such a way that if one power supply fails, then the second will automatically shut off. This mode renders the on/off power button inoperative; turn the PSUs on and off by inserting or removing the power cord. The [dual fault protection cables](#) cannot be used together with the interconnect sync cable.

Connect the molex of one cable to the first PSU, then connect the 4pin end of the same cable to the second PSU, connect the molex of the second cable to the second PSU, and then connect the 4pin to the first PSU.

