



## Euro Header Adapter Instruction Manual

version 1.0

### Items Included with EHA

- ▶ Two Euro Header Adapter PCBs, one short and one long, with 5 way Terminals and 16 pin keyed female euro sockets
- ▶ Five segments of color coded 14 AWG wire, each 30 inches long
- ▶ Tie wraps

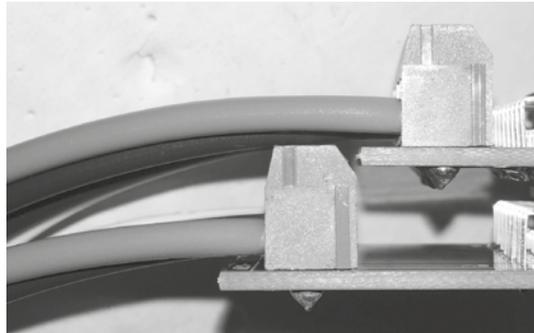
### Tools Needed

- ▶ Small flat bladed screwdriver
- ▶ Wire Cutter
- ▶ Wire Stripper for 14 AWG wire

### Instructions

- 1) These instructions are based on improving a solution that uses a 4 hp power module with euro headers and flying bus cables. Other applications are possible and may need some adaptation of the instructions.
- 2) The adapter boards replace the flying bus cable connection to the power module, and use the wires to attach to bus boards such as the Genus Modu Low Impedance Bus Board.
- 3) Follow all safety instructions for your power module and bus board solution in addition to the instructions here.
- 4) Open your case and remove modules to allow sufficient room for installation of the kit.

- 5) Remove all flying bus cables.
- 6) Do not install module power cables to your passive bus board, which is presumably being installed at the same time as EHA. Eurorack modules will not be connected until the power is tested.
- 7) For a 4 hp wide power module, an additional 1 hp may be required on one side for overhang of the terminal strips. Plan that out in advance by installing the adapter boards to the 4 hp power module and seeing which side is wider. About 1.5 inches or 40 mm of clearance is required behind the longer EHA board.
- 8) There is one short and one long adapter board to allow sufficient clearance between adjacent header installation in a 4 hp module. The shorter adapter board goes "above" the long one, so the longer board's blue terminal strip clears the



shorter board.

- 9) Install the adapter boards as they will be used in the case, without wires. Pull out the wire pack and trace a wire from the adapters to the installation point, for instance, the barrier strip on a Genus Modu Low Impedance Bus Board. Allow for some slack in the wire and 10 mm for wire stripping in both ends, then cut to length. Enough wire is provided to route to two bus boards.
- 10) If clearance is very tight behind the longer adapter board, then the wires can be bent, but do so before installing them in the blue terminal strips. Bending them after installation will pull them from the terminal strip and possibly break some strands.

- 11) Strip 5mm from the end of each wire using a 14 AWG wire stripper or adjustable stripper.
- 12) Wire color coding is used as follows:
  - ▶ Red = -12 V
  - ▶ Black (2) = GND
  - ▶ White = +12 V
  - ▶ Yellow = +5V
- 13) Install the wires into the holes in the blue terminal strip and tighten down the screws. Make sure all wires are secure.
- 14) Add tie wraps to bundle the five wires near each end.
- 15) Install the Euro Header Adapter boards with wires to your 4 hp power solution. The headers are notched for proper orientation with shrouded headers. If your 4 hp power board uses unshrouded headers, then match the -12V string indicator on the power board with the EHA board stripes and be sure that the pins are not offset on the connectors.
- 16) Insure that the soldered pins for the euro header adapters do not touch any metal, including the side of a metal case or an adjacent module PC board with exposed pins or headers.
- 17) Install the other end to your Genus Modu LIBB or other passive bus board solution using the wire color coding as previously indicated.
- 18) Turn on power at your power module. Inspect that the module's LEDs and the bus board's LEDs light properly for each power rail. If not, go back and check your wiring.
- 19) Once power is confirmed, install module power cables to your bus solution. Install modules back in the case as needed, your installation is complete.

EHA conforms to the CE mark for ROHS II and WEEE.

