



The 89D-8X4 wiring accessory block is intended to make it easy to bus signal lines and inject power for RJ45-connected peripherals including our HPA headphone amps, Rubi-T Meter modules, and others.

Side by side jacks on the 89D8x4 block are paralleled; the dip switches are for busing the two signal pairs on each row (corresponding to the orange and brown pairs of a typical TIA568B cat5 patch cable) to other rows on the same 2x4 set of jacks.

Ground (pins 3 and 6) is continuous to all 32 jacks on the block.

Power is run individually for each (side-by-side) pair of jacks from the power bus (+12VDC to pins 4&5) through a reset-able polyfuse device so no single port can take down the entire power bus.

The "left" and "right" signal pairs (pins 1&2 are left + & - respectively; 7&8 are right + & - respectively) can be connected to a 2-pair bus that serves the block of 8 (2x4) jacks using the DIP switches.

#### DS1

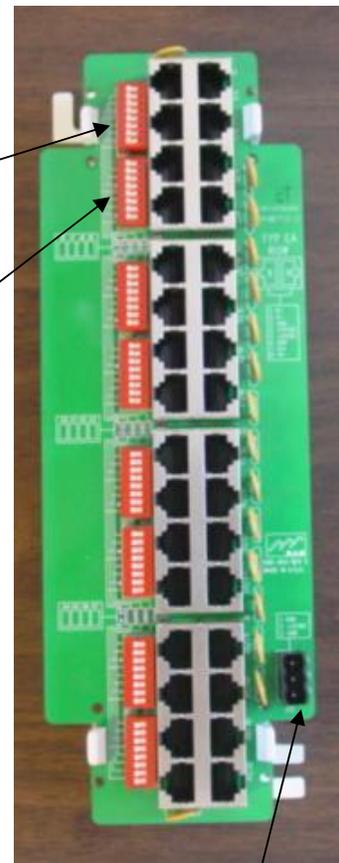
- 1 Jack 1&2 L+(pin1) to L+ bus
- 2 Jack 1&2 L- (pin2) to L- bus
- 3 Jack 1&2 R+ (pin 7) to R+ bus
- 4 Jack 1&2 R- (pin 8) to R- bus
- 5 Jack 3&4 L+(pin1) to L+ bus
- 6 Jack 3&4 L- (pin2) to L- bus
- 7 Jack 3&4 R+ (pin 7) to R+ bus
- 8 Jack 3&4 R- (pin 8) to R- bus

#### DS2

- 1 Jack 5&6 L+(pin1) to L+ bus
- 2 Jack 5&6 L- (pin2) to L- bus
- 3 Jack 5&6 R+ (pin 7) to R+ bus
- 4 Jack 5&6 R- (pin 8) to R- bus
- 5 Jack 7&8 L+(pin1) to L+ bus
- 6 Jack 7&8 L- (pin2) to L- bus
- 7 Jack 7&8 R+ (pin 7) to R+ bus
- 8 Jack 7&8 R- (pin 8) to R- bus

The pattern repeats for each 2x4 block of jacks.

Signals between adjacent 2x4 groups of jacks can be paralleled by installing jumpers on the PC Board. Jumpers J6-9 connect the two signal buses between the first and second 2x4 groups of jacks – 1-8 and 9-16 . Jumpers J10-J13 connect the two signal buses between the second and third 2x4 groups of jacks – 9-16 and 17-24. Jumpers J14-J17 connect the two signal buses between the third and fourth 2x4 groups of jacks – 17-24 and 25-32.



Power input connector for 12VDC.

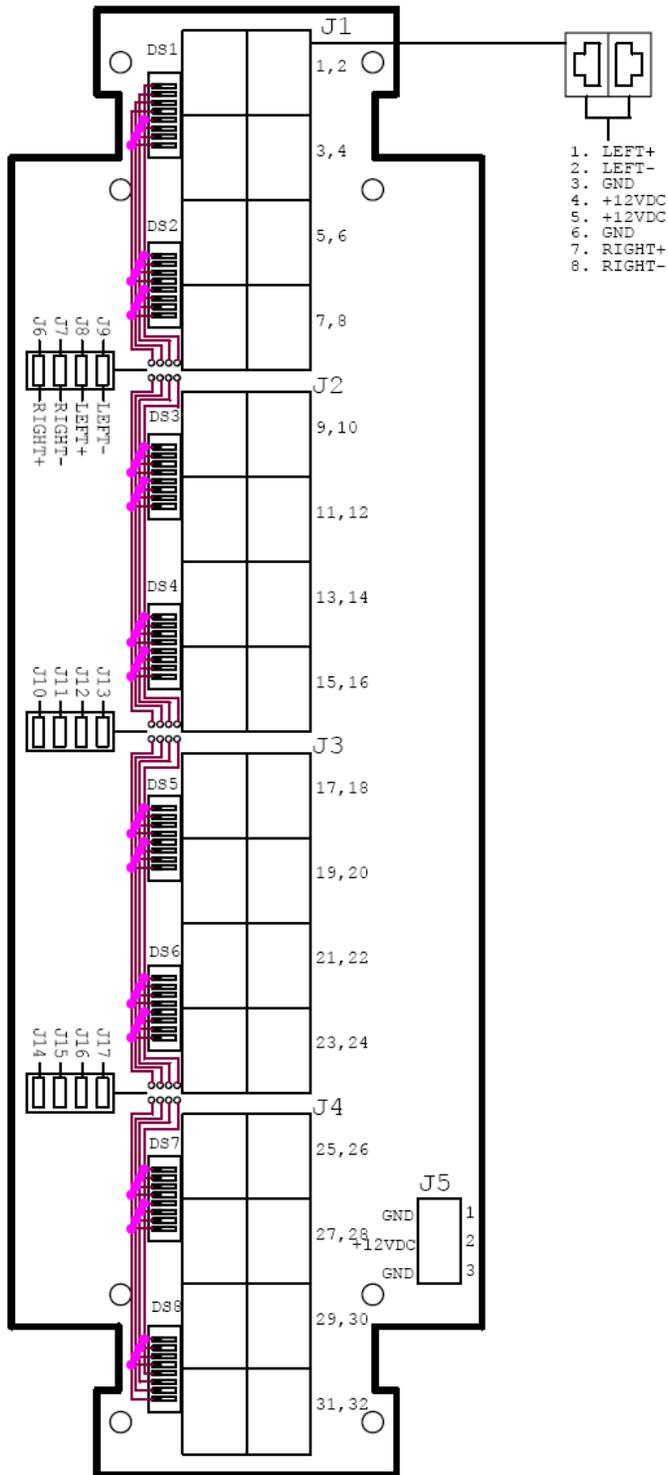
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