

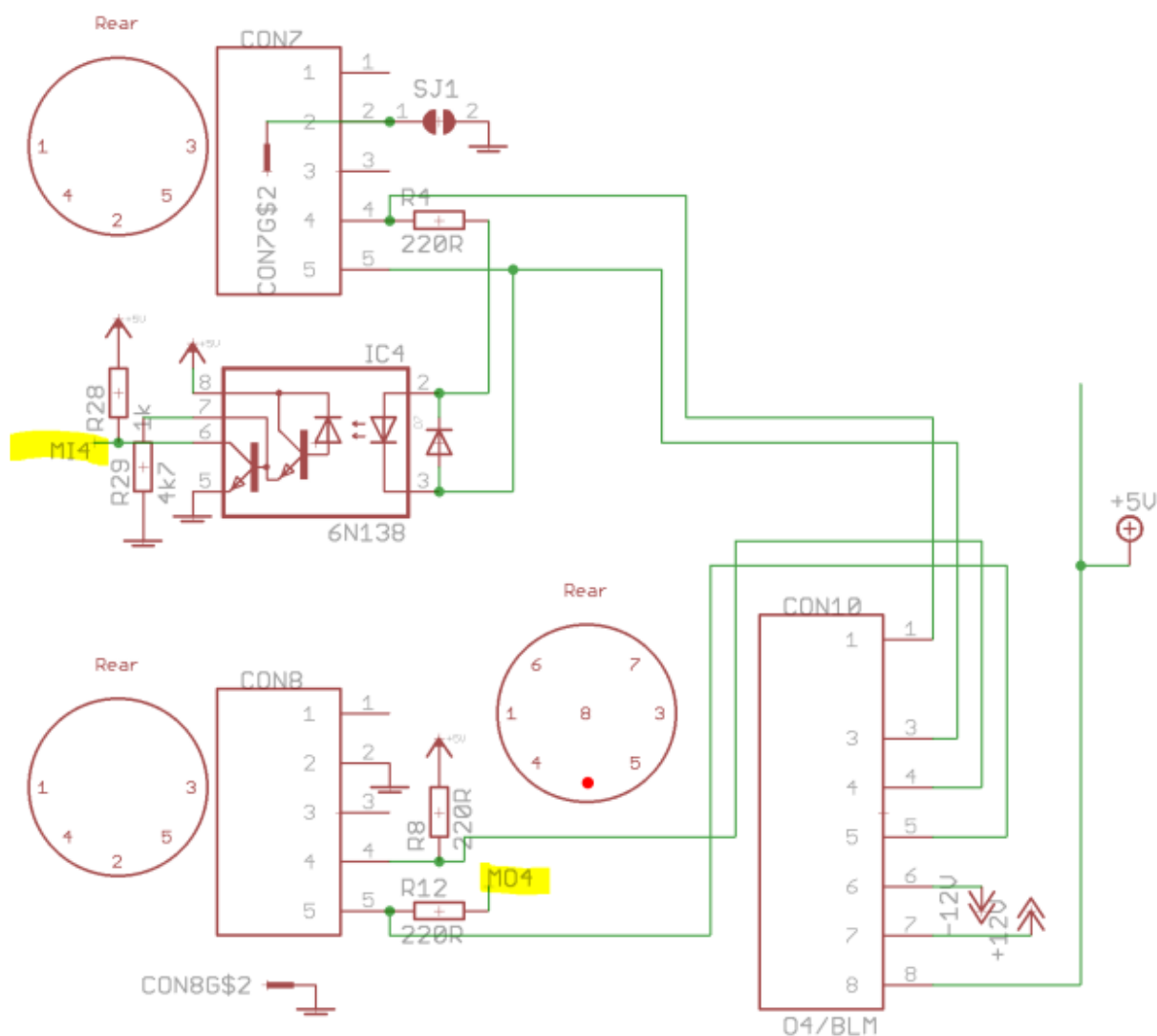
MIDI8

Simple extension for MIDI in and out (similar to two MIDIO boards) that makes a special accommodation for the BLM port.

Schematic

[See here for MIDIO](#). The LED activity circuits were omitted for space/complexity reasons; anyway they are often continuously lit when a MIDI clock is running.

The BLM port deserves special mention. MIDI I4 and O4 can be built as normal DIN5 connectors, or both can be combined into one DIN8 in the same location on the PCB. A more common DIN8 socket layout is used. If a BLM or other device needing bidirectional MIDI is envisioned, then the adjacent "I4" DIN position is redundant. In this case, the DIN8 can be used as a power supply input. For example, a "+5V" supply that is actually a higher voltage could be used and sent down the BLM cable to account for voltage drops and regulated therein.



BLM port with Core connections to MI/O4 shown.

Type	Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
Resistors									
	4		DIP8						
Headers									
	1	1*3	male	J3					
	4	2*5	male	J1, J2					
Sockets									
	8 (6)	DIN5	female	CON1-6(8)	806-KCDX-5S-S2				
	0 (2)	DIN8	female	(CON9-10)	806-KCDX-8S-S2-PS				
Hardware									
	3	M3 spacer							optional, suggest to panel mount
	2	M3 PCB mount			534-7695				

Versions

v1.0: first release.

Assembly

Building is straightforward with all part values indicated. Start with the flattest components (resistors and diodes, IC sockets) and work up to the higher ones. Ensure the DIN sockets are snug against the PCB before soldering all of the pins!

License

Currently the design is © 2017 antilog devices with all rights reserved; all documentation is CC BY-NC-SA 3.0.

From:

<http://www.midibox.org/dokuwiki/> - **MIDIbox**

Permanent link:

http://www.midibox.org/dokuwiki/doku.php?id=wcore_midi8&rev=1505042584

Last update: **2017/09/10 11:23**

