

# A SMALL MACINTOSH MIDI-INTERFACE

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This is a description of a MIDI-interface I have designed and built for a friend (I don't own a synthesizer). My design goal was to make it small, with no extra power supply and with as few parts as possible. Actually I wanted to make the smallest but unfortunately I have heard of one that is a lot smaller :-((

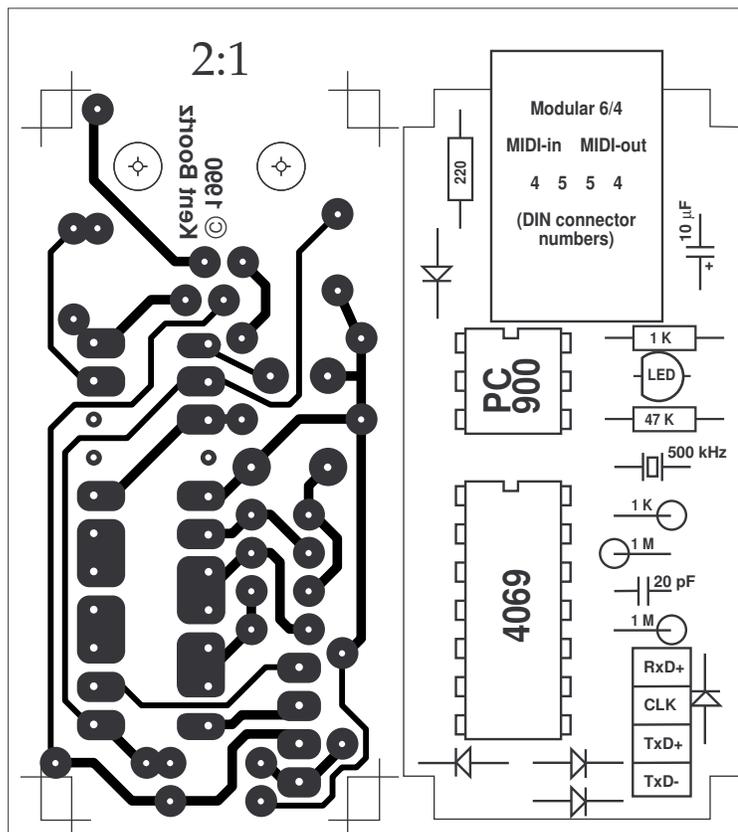
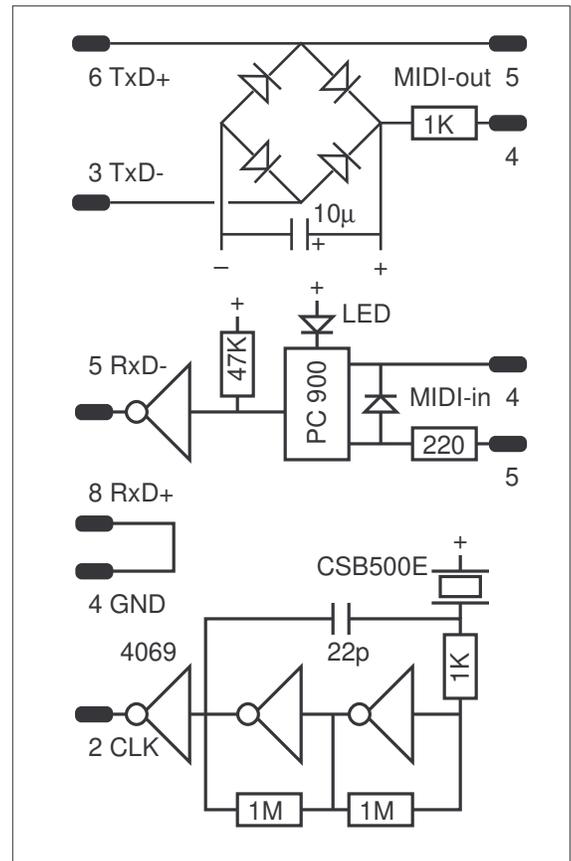
I use one modular-connector for both MIDI-in and MIDI-out instead of the two standard DIN-connectors to save space on the board. If you find the same box as I use, be prepared to use violence to get the board into it.

The 500 kHz clock circuit is taken from elsewhere and is made with a ceramic resonator. All MIDI programs I have heard of can switch to this speed, but I don't know if all can.

I hope this description will be useful to someone. It should work without trouble but if it doesn't, don't blame me. I don't sell this, but share something I have made for fun. Those I have built work without problems.

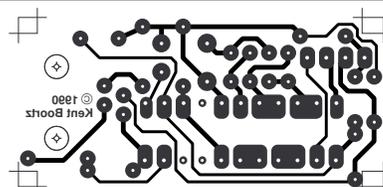
If you have any suggestions of changes, feel free to contact me and I may update this description.

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## Part list

- PC 900 opto isolator (SHARP)
- 4069 CMOS hex inverter
- 5 mm LED
- 5\*1N914 or 1N4148 diodes
- CSB500E ceramic resonator (muRata)
- 10µF
- 22pF
- 2\*1M, 47K, 2\*1K, 220 resistors
- One 22 pin DIL socket
- (or one 6 pin and one 14 pin DIL socket)
- Modular PCB female connector 6/4
- Mini-8 connector
- Box mod. 10006 (TEKO)



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