Power!

D1 UF4007
PWR_FLAG
VCC
D5 UF4007

J1 Barrel_Jack_Switch
GND2

C1 100 nF
C2 100 uF

PWR_FLAG
GND
PWR_FLAG

1
2 RX
3 TX
4 GND2
J3 MCU
PWR_FLAG

MIDI IN port with decoupling

J2 MIDI IN
R1 220
U2 6N138
VCC
R4 1K
R5 1.5K
RX
D2 1N4148
GND

MIDI activity LEDs

U1A LM358
RX
R2 330
D3 MIDI IN
VCC
U1C LM358
V+ 8
V- 4
GND

U1B LM358
TX
R3 330
D4 MIDI OUT
GND

MIDI OUT

U3A 74HC14
TX
U3B 74HC14
R6 220
R7 220
VCC
J4 MIDI OUT
GND

MIDI THRU

U3C 74HC14
RX
U3D 74HC14
R8 220
R9 220
VCC
J5 MIDI THRU1
GND

U3G 74HC14
VCC 14
GND 7
VCC
GND

U3E 74HC14
R10 220
R11 220
VCC
J6 MIDI THRU2
GND

U3F 74HC14
R12 220
R13 220
VCC
J7 MIDI THRU2
GND

Switchable power source: DC jack or MCU VCC rail.
LED activity indication.
MIDI IN and OUT ports can be connected to Arduino or other external MCU.
Three MIDI THRU ports.
alex@musayev.com
Sheet: /
File: midi-thru-pcb.sch
Title: MIDI THRU
Size: A4   Date:
Rev: R1
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