FADR-4 USB Midi Controller

AFF1
YY5631AH

CC1 12
CC2 9
CC3 8

a b c d e f g DP NC
11 7 4 2 10 5 3 6

U3
MAX7219

DIG0 2
DIG1 11
DIG2 6
DIG3 7
DIG4 3
DIG5 10
DIG6 5
DIG7 8
SEGA 14
SEGB 16
SEGC 20
SEGD 23
SEGE 21
SEGF 15
SEGG 17
SEGDP 22

CLK 13
LOAD 12
DIN 1
DOUT 24
ISET 18
VCC 19
GND 4
GND 9

R1 33K +5V

+5V
C2 0.1uF
GND

U2
74AHCT125

1Y 3 1A 2
   1OE 1
2Y 6 2A 5
   2OE 4
3Y 8 3A 9
   3OE 10
4Y 11 4A 12
   4OE 13

Vcc 14 GND 7

GND
+5V
C1 0.1uF
GND

J1
USB_B

VBUS 1
D+ 3
D- 2
Shield GND 5 4

+5V

P1
USB_CONN
D+ 2
D- 1

GND

U1
Teensy-LC

GND 1   Vin 33
0 2   GND 32
1 3   3.3V 31
23_A9 4   30
22_A8 5   29
21_A7 6   28
20_A6 7   27
19_A5 8   26
18_A4 9   25
17_A3 10   24
16_A2 11   23
15_A1 12   22
14_A0 13   21
13_LED 14 20

+5V
GND +3.3V

SW1
SW_Push
GND

+3.3V
10K RV4
GND

+3.3V
10K RV3
GND

+3.3V
10K RV2
GND

+3.3V
10K RV1
GND