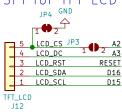
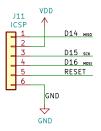


SPI for TFT LCD



ICSP CONNECTOR



IR Transmitter Volume Tunner

3x8 KFYPAD MATRIX

J5 ROW1		J6 ROW2		J7 ROW3		
ROW1 16	15 COL8	ROW2 16	15 COL8	ROW3 16	15 COL8	
ROW1 14	13 COL7	ROW2 14	13 COL7	ROW3 14	13 COL7	
ROW1 12	11 COL6	ROW2 12	11 COL6	ROW3 12	11 COL6	
ROW1 10	9 COL5	ROW2 10	9 COL5	ROW3 10	9 COL5	
ROW1 8	7 COL4	ROW2 8	7 COL4	ROW3 8	7 COL4	
ROW1 6	5 COL3	ROW2 6	5 COL3	ROW3 6	5 COL3	
ROW1 4	3 COL2	ROW2 4	3 COL2	ROW3 4	3 COL2	
ROW1 2	1 COL1	ROW2 2	1 COL1	ROW3 2	1 COL1	

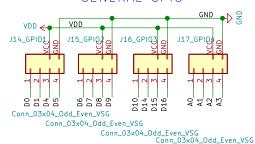
i i dii 5 iii i ccci	votuille Tullii
J2	J3
IR_TX	VOL_TUNNER
3 VDD	J VDD
2GND	2 GND
1 IR_SEND	1 VOLUME_TUNNER
I IN SERVE	- VOLUME_TONNE

RÓW1		RÓW2	RÓW3
ROW1 16	15 COL8	ROW2 16 15 C	COL8 ROW3 16 15 COL8
ROW1 14	13 COL7	ROW2 14 13 C	COL7 ROW3 14 13 COL7
ROW1 12	11 COL6	ROW2 12 11 C	COL6 ROW3 12 11 COL6
ROW1 10	9 COL5	ROW2 10 9 C	COL5 ROW3 10 9 COL5
ROW1 8	7 COL4	ROW2 8 7 C	COL4 ROW3 8 7 COL4
ROW1 6	5 COL3	ROW2 6 5 C	COL3 ROW3 6 5 COL3
ROW1 4	3 COL2	ROW2 4 3 C	COL2 ROW3 4 3 COL2
ROW1 2	1 COL1	ROW2 2 1 C	COL1 ROW3 2 1 COL1

IR Receiver

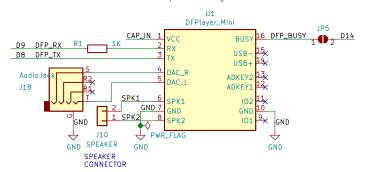
J1			1	J4 2C	
IR_RX 3 VDD 2 GND 1 IR_RECV	GND VDD SCL	8 6 4		7 5 3	GND VDD SCL
	SDA	2		1	SDA

GENERAL GPIO



DFPlayer MINI

operation voltage: 3.2V-5.0V



12C DEVICE CONNECTOR

ATmega32U4 digital Pins Usable For Interrupts are 0, 1, 2, 3, 7

ROW1 at DO ROW2 at D1

For SoftwareSerial Not all pins on the Leonardo and Micro support change interrupts,

Power Switch

+5٧

Batt

2 GND

 \rightarrow

GND

Sparkfun Pro Micro

DO/RXD

1 D1/TXD

6 D3/SCL

7 D4/A6

D6/A7

15 D14/MISO

SDA 5 D2/SDA

SCL

_D5 IR_SEND_ROW3_8

VIN->LDO->5V Sparkfun Pro Micro's VIN range: 7V-12V ATmega32u4's operation voltage(5V pin): 2.7V-5.5V

Sparkfun_Pro_Micro

11 D8/A8 D13/LED GND 3 12 D9/A9 D17/RX_LED GND 4

13 D10/A10 D16/MOSI

RESET

D20/A2

D19/A1

D18/A0

D15/SCK

GNE

+5V 21

D21/A3 20 A3

19 A2

D1

SM340A

+BATT

J8

PWR_SW

POWER SWITCH 2 VDD 1 SRC_FOR_VDD

U2

BB-4056

SND BAT

BATTERY

DO ROW1

D1 ROW2

D4 COL1

D6 COL2

D7 IR_RECV

D8 DFP_TX

D9 DFP_RX

D14 COL5 MISS

D10 COL3

D3

CONNECTOR

GND

GND

c1 Super

GND

PWR_FLAG OTH GND

BEFORE BURNING YOUR TEST CODE to the BOARD >>> JP1 is RECOMMENTED to be CONNECTED <-<

Or you will see ERROR messages on Arduino IDE like ...

avrdude: verification error, first mismatch at byte 0x0008

RESET

18 A1 VOLUME_TUNNER

16 COL8

CAP_IN

D2

SM340A

Capacitor

VDD

1

DC

COL6

COL4

D16 Mosi

D15 sck

GND

 \Rightarrow

GND

so only the following can be used for RX: 8, 9, 10, 11, 14 (MISO), 15 (ŠCK), 16 (MOSI). Sheet: / File: HappyAAC-Type-A.sch Title: HappyAAC type A Size: A4 Date: 2021-06-07 Rev: 2d KiCad E.D.A. kicad 5.1.10 ld: 1/1