VCC P2
VSS P3
P4
TX P5
RX P6
OUTPUT1 P7
OUTPUT2 P8

Header 3
Header 3
Header 3
Header 3
Header 3
Header 2
Header 2

GND

GND
VCC

3
1
D1
GND
VCC
DC
2
GND

A1
VCC
3
5V
3V3
2
VSS
GND
1
3V3
GND

VCC
+ C4
Cap Pol1
470uF
C5
Cap
0.1uF
GND

S6
switch
+ C3
Cap Pol1
10uF
RST
VCC
R5
Res2
4K7
GND

E1
VCC
1
A0   VCC
8
2
A1   WP
7
3
A2   SCL
6 SCL
4
GND SDA
5 SDA
E2PROM
GND

VCC
R1   R2
Res2   Res2
4K7   4K7
SDA
SCL

L1
14 O 4   Sence B 15
12 I 4   O 3   13
10 I 3   ENB   11
8   GND   Vss   9   VCC
6   ENA   I 2   5
4   Vs   I 1   3   OUTPUT2
2   O 1   Sence A 1
GND   GND
VCC
OUTPUT1
L298N

M1
1   P1.0   VCC   40 VCC
2   P1.1   P0.0   39 D0
3   P1.2   P0.1   38 D1
4   P1.3   P0.2   37 D2
5   P1.4   P0.3   36 D3
6   P1.5   P0.4   35 D4
7   P1.6   P0.5   34 D5
8   P1.7   P0.6   33 D6
                P0.7   32 D7
9   RST/VPD   STC89C52
10 P3.0/RXD   EA/VPP 31 VCC
11 P3.1/TXD   ALE/PROG 30
12 P3.2/INT0   PSEN   29
13 P3.3/INT1
14 P3.4/T0
15 P3.5/T1   P2.7   28
16 P3.6/WR   P2.6   27
17 P3.7/RD   P2.5   26
                P2.4   25
18 XTL2   P2.3   24
19 XTL1   P2.2   23
                P2.1   22
20 GND   P2.0   21
STC89C52(RC)

RST
RX
TX
SCL
SDA
BEEP

C1
Cap
30pF
Y1
XTAL
C2
Cap
GND 30pF
GND

P1
1
2
3
4
5
6
7
8
9
9PIN8

H1
Head
S1   S2   S3   S4
switch switch switch switch
GND

GND
LCD1
1   GND
2   VCC
VO 3   Vo
4   RS
5   RW
6   EN
D0 7   DATA0
D1 8   DATA1
D2 9   DATA2
D3 10 DATA3
D4 11 DATA4
D5 12 DATA5
D6 13 DATA6
D7 14 DATA7
15 BL+
16 BL-
LCD1602
VCC
S5
switch
GND

VCC
1
RP1
3
VO
GND

BEEP
R3
Res2
1K
Q1
2N3906
B1
beep
1
2
BEEP
GND

Title
Size   Number   Revision
A4
Date: 2018/8/25   Sheet   of
File: C:\Users\..\fpl.SchDoc   Drawn By: Siyou Luo

Bill of Materials

指纹锁电路原理图

Source Data From: FPL.PrjPCB

Project: FPL.PrjPCB

Variant: None

Creation Date: 2018/8/25 10:58:55

Print Date: 43337 43337.45782

Footprint	Comment	LibRef	Designator	Description	Quantity
HDR1X3	3V3	AMS1117	A1	3.3V电源模块, 5V to 3.3V	1
BEEP	BEEP	BEEP	B1	蜂鸣器	1
RAD-0.1	Cap	Cap	C1, C2, C5	Capacitor	3
ElecCap	Cap Pol1	Cap Pol1	C3	Polarized Capacitor (Radial)	1
ElecCap470	Cap Pol1	Cap Pol1	C4	Polarized Capacitor (Radial)	1
DC005	DC	DC	D1	DC插座	1
DIP-8	E2PROM	AT24C02	E1	E2PROM,I2C-上拉	1
Head1	Head1	Head1	H1	1pin焊盘	1
Multiwatt15V	L298N	L298N	L1	电机驱动芯片	1
1602	LCD1602	LCD1602	LCD1	LCD1602	1
	STC89C52(RC)	STC89C52	M1	MCU	1
HDR1X9	9PIN8	9PIN8	P1	9PIN8排阻	1
HDR1X3	Header 3	Header 3	P2, P3, P4, P5, P6	Header, 3-Pin	5
HDR1X2	Header 2	Header 2	P7, P8	Header, 2-Pin	2
BCY-W3/E4	2N3906	2N3906	Q1	PNP General Purpose Amplifier	1
AXIAL-0.3	Res2	Res2	R1, R2, R3, R5	Resistor	4
potentionmeter	potentiometer	电位计	RP1	旋钮式电位计	1
switch_4pin	switch	Switch_4pin	S1, S2, S3, S4, S5, S6	单稳态按钮开关	6
XTAL	XTAL	XTAL	Y1	Crystal Oscillator	1
					34

Approved **Notes**