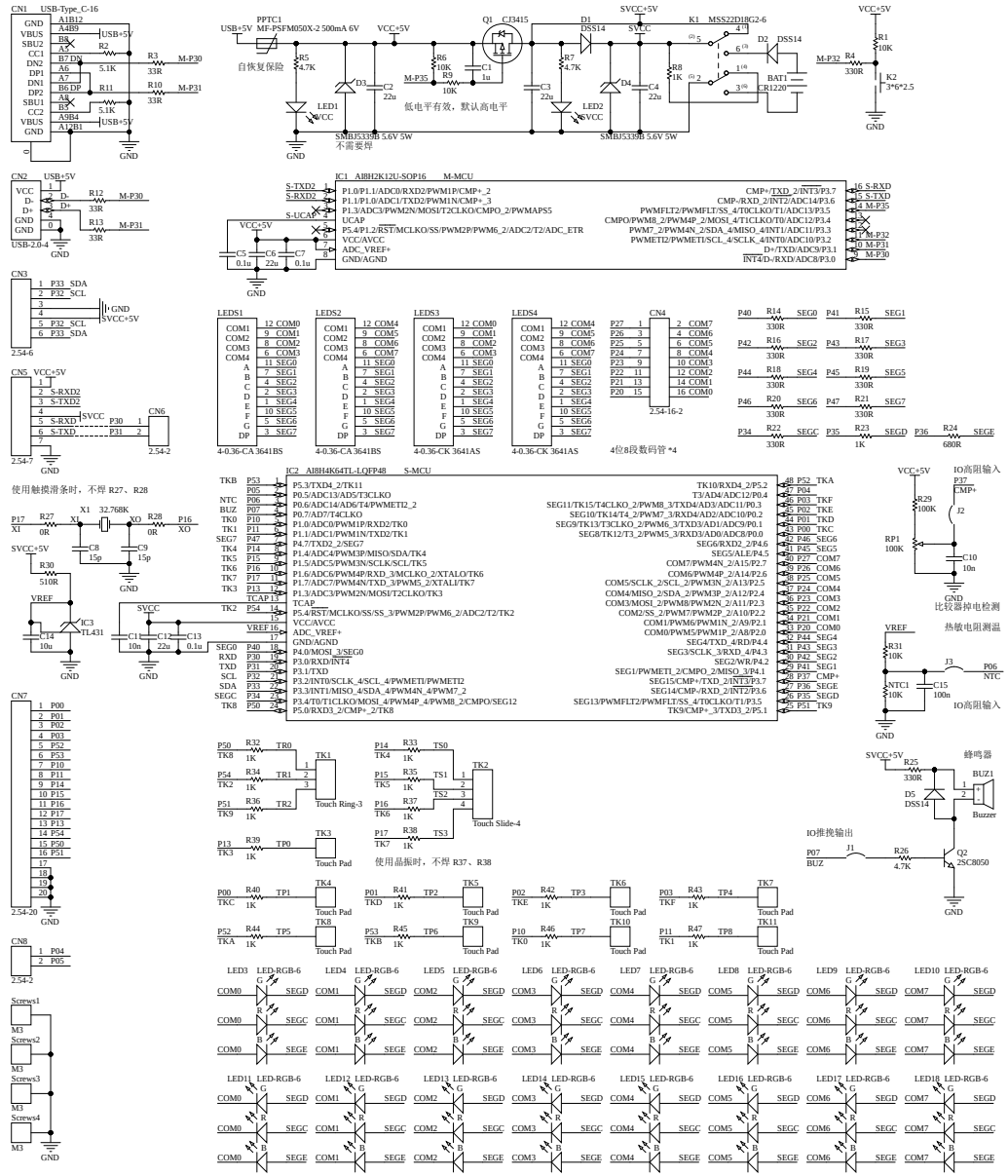
CN1 USB-Type_C-16
GND
VBUS
SBU2
CC1
DN2
DP1
DN1
DP2
SBU1
CC2
VBUS
GND
USB+5V
R2 5.1K
R3 33R
M-P30
R11 5.1K
R10 33R
M-P31
GND
PPTC1 MF-PSFM050X-2 500mA 6V
USB+5V
自恢复保险
VCC+5V
R5 4.7K
D3
C2 22u
LED1 W/VCC
SMBJ5338B 5.6V 5W
不需要焊
M-P35
R6 10K
R9 10K
C1 1u
低电平有效，默认高电平
Q1 CJ3415
C3 22u
R7 4.7K
D1 DSS14
SVCC
LED2 W/VCC
SMBJ5338B 5.6V 5W
SVCC+5V
K1 MSS22D18G2-6
D2 DSS14
R8 1K
C4 22u
BAT1 CR1220
VCC+5V
R1 10K
M-P32
R4 330R
K2 3*6*2.5
GND
CN2 USB+5V
VCC
D-
D+
GND
R12 33R
R13 33R
M-P30
M-P31
USB-2.0-4
GND
CN3
P33 SDA
P32 SCL
GND
SVCC+5V
2.54-6
CN5 VCC+5V
S-RXD2
S-TXD2
SVCC
P30
P31
CN6
S-RXD
S-TXD
2.54-7
2.54-2
GND
使用触摸滑条时，不焊 R27、R28
IC1 AI8H2K12U-SOP16 M-MCU
S-TXD2
S-RXD2
S-UCAP
VCC+5V
C5 0.1u
C6 22u
C7 0.1u
VCC/AVCC
ADC_VREF+
GND/AGND
P1.0/P1.1/ADC0/RXD2/PWM1P/CMP+_2
P1.1/P1.0/ADC1/TXD2/PWM1N/CMP+_3
P1.3/ADC3/PWM2N/MOSI/T2CLKO/CMPO_2/PWMAPS5
UCAP
P5.4/P1.2/RST/MCLKO/SS/PWM2P/PWM6_2/ADC2/T2/ADC_ETR
CMP+/TXD_2/INT3/P3.7
CMP-/RXD_2/INT2/ADC14/P3.6
PWMFLT2/PWMFLT/SS_4/T0CLKO/T1/ADC13/P3.5
CMPO/PWM8_2/PWM4P_2/MOSI_4/T1CLKO/T0/ADC12/P3.4
PWM7_2/PWM4N_2/SDA_4/MISO_4/INT1/ADC11/P3.3
PWMETI2/PWMETI/SCL_4/SCLK_4/INT0/ADC10/P3.2
D+/TXD/ADC9/P3.1
INT4/D-/RXD/ADC8/P3.0
16 S-RXD
15 S-TXD
14 M-P35
13 M-P32
12 M-P31
11 M-P30
LEDS1
LEDS2
LEDS3
LEDS4
COM1
COM2
COM3
COM4
A
B
C
D
E
F
G
DP
4-0.36-CA 3641BS
4-0.36-CA 3641BS
4-0.36-CK 3641AS
4-0.36-CK 3641AS
CN4
2.54-16-2
4位8段数码管 *4
P40 R14 330R SEG0
P41 R15 330R SEG1
P42 R16 330R SEG2
P43 R17 330R SEG3
P44 R18 330R SEG4
P45 R19 330R SEG5
P46 R20 330R SEG6
P47 R21 330R SEG7
P34 R22 330R SEGC
P35 R23 1K SEGD
P36 R24 680R SEGE
IC2 AI8H4K64TL-LQFP48 S-MCU
P5.3/TXD4_2/TK11
P0.5/ADC13/AD5/T3CLKO
P0.6/ADC14/AD6/T4/PWMETI2_2
P0.7/AD7/T4CLKO
P1.0/ADC0/PWM1P/RXD2/TK0
P1.1/ADC1/PWM1N/TXD2/TK1
P4.7/TXD2_2/SEG7
P1.4/ADC4/PWM3P/MISO/SDA/TK4
P1.5/ADC5/PWM3N/SCLK/SCL/TK5
P1.6/ADC6/PWM4P/RXD_3/MCLKO_2/XTALO/TK6
P1.7/ADC7/PWM4N/TXD_3/PWM5_2/XTALI/TK7
P1.3/ADC3/PWM2N/MOSI/T2CLKO/TK3
TCAP
P5.4/RST/MCLKO/SS/SS_3/PWM2P/PWM6_2/ADC2/T2/TK2
VCC/AVCC
ADC_VREF+
GND/AGND
P4.0/MOSI_3/SEG0
P3.0/RXD/INT4
P3.1/TXD
P3.2/INT0/SCLK_4/SCL_4/PWMETI/PWMETI2
P3.3/INT1/MISO_4/SDA_4/PWM4N_4/PWM7_2
P3.4/T0/T1CLKO/MOSI_4/PWM4P_4/PWM8_2/CMPO/SEG12
P5.0/RXD3_2/CMP+_2/TK8
TK10/RXD4_2/P5.2
T3/AD4/ADC12/P0.4
SEG11/TK15/T4CLKO_2/PWM8_3/TXD4/AD3/ADC11/P0.3
SEG10/TK14/T4_2/PWM7_3/RXD4/AD2/ADC10/P0.2
SEG9/TK13/T3CLKO_2/PWM6_3/TXD3/AD1/ADC9/P0.1
SEG8/TK12/T3_2/PWM5_3/RXD3/AD0/ADC8/P0.0
SEG6/RXD2_2/P4.6
SEG5/ALE/P4.5
COM7/PWM4N_2/A15/P2.7
COM6/PWM4P_2/A14/P2.6
COM5/SCLK_2/SCL_2/PWM3N_2/A13/P2.5
COM4/MISO_2/SDA_2/PWM3P_2/A12/P2.4
COM3/MOSI_2/PWM8/PWM2N_2/A11/P2.3
COM2/SS_2/PWM7/PWM2P_2/A10/P2.2
COM1/PWM6/PWM1N_2/A9/P2.1
COM0/PWM5/PWM1P_2/A8/P2.0
SEG4/TXD_4/RD/P4.4
SEG3/SCLK_3/RXD_4/P4.3
SEG2/WR/P4.2
SEG1/PWMETI_2/CMPO_2/MISO_3/P4.1
SEG15/CMP+/TXD_2/INT2/P3.7
SEG14/CMP-/RXD_2/INT2/P3.6
SEG13/PWMFLT2/PWMFLT/SS_4/T0CLKO/T1/P3.5
TK9/CMP+_3/TXD3_2/P5.1
TKB
NTC
BUZ
TK0
TK1
SEG7
TK4
TK5
TK6
TK7
TK3
TCAP
TK2
SEG0
RXD
TXD
SCL
SDA
SEGC
TK8
TKA
TK9
TKD
TKE
TKF
TKC
SEG6
SEG5
COM7
COM6
COM5
COM4
COM3
COM2
COM1
COM0
SEGD
SEGE
P17 R27 0R X1
X1 32.768K
XO
P16 R28 0R XO
C8 15p
C9 15p
SVCC+5V
R30 510R
VREF
IC3 TL431
C14 10u
C11 10n
C12 22u
C13 0.1u
SVCC
GND
VCC+5V
IO高阻输入
P37 CMP+
R29 100K
J2
RP1 100K
C10 10n
比较器掉电检测
热敏电阻测温
R31 10K
J3
P06 NTC
NTC1 10K
C15 100n
IO高阻输入
蜂鸣器
R25 330R
BUZ1
D5 DSS14
Buzzer
IO推挽输出
P07 BUZ
J1
R26 4.7K
Q2 2SC8050
P50 R32 1K TK8 TR0
P54 R34 1K TK2 TR1
P51 R36 1K TK9 TR2
TK1
Touch Ring-3
P13 R39 1K TK3 TP0
TK3
Touch Pad
P14 R33 1K TK4 TS0
P15 R35 1K TK5 TS1
P16 R37 1K TK6 TS2
P17 R38 1K TK7 TS3
TK2
Touch Slide-4
使用晶振时，不焊 R37、R38
P00 R40 1K TKC TP1
P01 R41 1K TKD TP2
P02 R42 1K TKE TP3
P03 R43 1K TKF TP4
P52 R44 1K TKA TP5
P53 R45 1K TKB TP6
P10 R46 1K TK0 TP7
P11 R47 1K TK1 TP8
TK4
TK5
TK6
TK7
TK8
TK9
TK10
TK11
Touch Pad
CN7
CN8
Screws1
Screws2
Screws3
Screws4
M3
LED3 LED-RGB-6
LED4 LED-RGB-6
LED5 LED-RGB-6
LED6 LED-RGB-6
LED7 LED-RGB-6
LED8 LED-RGB-6
LED9 LED-RGB-6
LED10 LED-RGB-6
LED11 LED-RGB-6
LED12 LED-RGB-6
LED13 LED-RGB-6
LED14 LED-RGB-6
LED15 LED-RGB-6
LED16 LED-RGB-6
LED17 LED-RGB-6
LED18 LED-RGB-6