GPIO9 R1 470R S1 BOOT GND

EN R4 470R S2 GND

GPIO0 R6 470R RST || UserKEY

R7 10K 1%

VCC3.3V

VCC3.3V L1
B+ B- 2 R2 470R GPIO5
R+ R- 4 R3 470R GPIO3
G+ G- 6 R5 470R GPIO4
RGB

VCC3.3V R8 470R

D1 TXD0 LED

P1
13
12
11 NC1 VCC3.3V
10 GPIO2
9 GPIO3
8 NC2
7 EN
6 NC3
5 NC4
4 GPIO0
3 GPIO1
2
1 GND
Header V5_IN

GND

P2
TXD0 1
RXD0 2
GPIO19 3
GPIO18 4
GPIO9 5
GPIO8 6
GPIO7 7
GPIO6 8
GPIO5 9
GPIO4 10
GPIO10 11
12
13
VCC3.3V Header 13

GND

U1 LN6210
VCC3.3V 1 VOUT VIN 3 VCC5V
C1 1UF C2 104 GND C3 104 C4 1UF
GND GND GND

GND

49 48 47 46 45 44 43 42 41 40 39 38 37 36

ESP1 U1 GND
50 GND GND 53
1 GND NC14 35
2 GND NC13 34
3 3V3 NC12 33
NC14 NC1 NC11 32
GPIO2 IO2 TXD0 31 TXD0
GPIO3 IO3 RXD0 30 RXD0
NC27 NC2 NC10 29
8 EN NC9 28
NC39 NC3 IO19 27 GPIO19
NC40 NC4 IO18 26 GPIO18
11 GND NC8 25
51 GND GND 52
IO0 IO1 GND NC5 IO10 NC6 IO4 IO5 IO6 IO7 IO8 IO9 NC7 24
GPIO0 GPIO1 14 15 GPIO10 17 GPIO4 GPIO5 GPIO6 GPIO7 GPIO8 GPIO9
GND

VCC3.3V R14 10K 1%
GPIO8

GND EN Q1 NPN
R11 10K 1%
DTR RTS
R13 10K 1% Q2 NPN GPIO9

VCC3.3V
104 C7 C8 10UF
R12 10K 1% VCC3.3V
EN
C10 1UF GND

GND

R9 TXD0 R10 RXD0
470R 470R
C9 0.1UF GND

GND V5_IN
0.1UF C5
10UF C6
U2 CH340C
1 GND VCC 6
2 TXD RTS 15
3 RXD RTS 14 RTS DTR
4 V3 DTR 13 DTR RTS
5 UD+ DCD 12
6 UD- RI 11
7 XI DSR 10
8 XO CTS 9

U3
5 GND
4 D+
3 D-
2 VCC5V
1 microusb V5_IN
D2 VCC5V

GND

Title ESP32-C3-CH340开发板
Size A4
Number
Revision
Date: 2021/8/12 Sheet of
File: F:\项目文档\..\ESP32-C3Mini-CH340.SchDoc Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
1UF	Capacitor	C1, C4, C10	C0402	Cap	3
104	Capacitor	C2, C3, C7	C0402	Cap	3
Cap	Capacitor	C5, C9	C0402	Cap	2
Cap	Capacitor	C6	1206	Cap	1
10UF	Polarized Capacitor (Radial)	C8	C0402	Cap Pol1	1
LED		D1	0603D	LED	1
	Schottky Diode	D2	D0603	DIODE SCHOTTKY	1
U1		ESP1	esp32-c3 mini	ESP32-C3-Mini	1
RGB		L1	5050	RGB	1
Header 13	Header, 13-Pin	P1, P2	HDR1X13	Header 13	2
NPN	NPN Transistor	Q1, Q2	SOT-23	NPN	2
470R		R1, R2, R3, R4, R5, R6, R8, R9, R10	R0402	RES2	9
10K 1%		R7, R11, R12, R13, R14	R0402	RES2	5
BOOT		S1	button	SW-PB	1
RST ‖ UserKEY		S2	button	SW-PB	1
LN6210		U1	LN6210	LN6210	1
CH340C		U2	SO-16_M	CH340	1
microusb		U3	USB_T	microusb	1