PWR

U2
+5V
VIN1
VIN2
VIN3
VIN4
EN1
EN2
EN3
EN4
LX1
LX2
LX3
LX4
FB1
FB2
FB3
FB4
NC
NC
AGND
GND1
GND2
GND3
GND4
PAD
VCC
L1 4.7uH
L2 4.7uH
L3 4.7uH
C4 10uF
C5 10uF
C6 10uF
C7 20pF
C8 20pF
C9 20pF
C10 10uF
C11 10uF
C12 10uF
R6 10K
R7 200K
R8 68K
R9 10K
R10 100K
R11 15K
+1V2
+1V8
+3V3
GND

调到1.15V左右

J6
24V_IN
Fuse
GND F3
+24V

U8
RY8411
IN
EN
BS
LX
FB
GND
C70 100nF
L4 4.7uH
R2 53.6K
R3 10k
C71 20pF
C72 10uF
C73 10uF
C3 10uF
C13 10uF
D3 +5V
K34

RS3236
IN
EN
OUT
BP
GND
C1 100nF
C2 10nF
+3V0

USB-UART 正反插功能不同

VBUS
F1 1A
D1 SMF5V0A
CC1
CC2
R12 5.1K
R13 5.1K
D-
D+
UART_DM
UART_DP
SBU1
SBU2
SHIELD
J2
USB_C_Receptacle_USB2.0
S1
A1
B1
A4
A5
A7
A6
A8
B8
B7
B6
B5

使用VBUS供电，
IO电平3.3V

U4
CH343P
UART0_RX
UART0_TX
R37 33
R38 33
C15 10nF
RXD
V3
VD+
VD-
RI
CTS
DSR
RTS
VDD5
TXD
GND
+3V3
+5V
VIO
VBUS
ACT#
DCD
DTR

J3
USB_C_Receptacle_USB2.0
R14 5.1K
R15 5.1K
OTG_DM
OTG_DP
JLINK_DM
JLINK_DP
R16 33
R17 33
C16 100nF
C17 100nF
C18 100nF

JLINK

PA2: TXD
PA3: RXD
PB13: SWCLK
PB14: SWDIO
PB0: NRST

U5
STM32F103CBT6
NRST
BOOT0
PD0
PD1
PC13
PC14
PC15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
VBAT
VDD
VDDA
VSS
VSSA
R18 100K
R19 10K
R20 100R
R21 10K
R22 4.7K
R23 10K
C19 100nF
C20 20pF
C21 20pF
Y3 8MHz
C22 100nF
C23 100nF
C24 100nF
C25 100nF
C69 100nF
C26 10uF
R26 10k
R27 10k
T_JTCK_SWCLK
LED_STLINK
JLINK_DXIN
JLINK_DXOUT
JLINK_DM
JLINK_DP
ST_SWDIO
ST_SWCLK
JLINK_USB_RENUM
T_SWDIO_IN
T_JTMS_SWDIO
D2 LED
R35 1K
Q1 S8050
R30 1.5K
R33 10K
R34 36K
R36 100
J4 JLink_Upload
J5 JLINK_OUT
F2 1A
R28 33R
R29 33R

V3S

V3S
VDD-SYS1
VDD-SYS2
VDD-SYS3
VDD-SYS4
VDD-SYS5
VDD-SYS6
VDD-CPUI
VDD-CPUI1
VDD-CPUI2
VDD-CPUI3
VDD-CPUM
VDD-CPUM1
VDD-CPUM2
VDD-CPUM3
VCC-DRAM0
VCC-DRAM1
VCC-DRAM2
VCC-DRAM3
VCC-DRAM4
VCC-DRAM5
VCC-DRAM6
VCC-DRAM7
VCC-DRAM8
VCC-DRAM9
VCC-DRAM10
VCC-DRAM11
VCC-IO7
VCC-IO6
VCC-IO1
VCC-IO0
VCC-PE1
VCC-PE0
RESET
+1V2
+1V8
+3V3
HPCOM
HPCOMFB
HPVCCBP
HPVCCIN
HPOUTL
HPOUTR
HBIAS
VRA2
VRA1
AGND
AVCC
MICIN1N
MICIN1P
LRADC0
USB-DP
USB-DM
VCC-USB
PF0/SDC0_D1/JTAG_MS1
PF1/SDC0_D0/JTAG_DI1
PF2/SDC0_CLK/UART0_TX
PF3/SDC0_CMD/JTAG_DO1
PF4/SDC0_D3/UART0_RX
PF5/SDC0_D2/JTAG_CK1
PF6
VCC-RTC
RTC-VIO
X32KIN
X32KOUT
EPHY-VCC
EPHY-VDD
EPHY-TXP
EPHY-TXN
EPHY-RXP
EPHY-RXN
EPHY-RTX
EPHY-SPD-LED
EPHY-LINK-LED
EGND
SVREF1
SVREF0
SZQ
X24MOUT
X24MIN
VCC-PLL
VCC-MCSI
MCSI-CLKN
MCSI-CLKP
MCSI-D1N
MCSI-D1P
MCSI-D0N
MCSI-D0P
U1
V831
WL_SDIO_D3
WL_SDIO_D2
WL_SDIO_D1
WL_SDIO_D0
WL_SDIO_CMD
WL_SDIO_CLK
LEDO
WL_UART_TX
WL_UART_RX
UART0_TX
UART0_RX
SPI0_MISO
SPI0_MOSI
SPI0_CLK
SPI0_CS
PG5/SDC1_D3/PG_EINT5
PG4/SDC1_D2/PG_EINT4
PG3/SDC1_D1/PG_EINT3
PG2/SDC1_D0/PG_EINT2
PG1/SDC1_CMD/PG_EINT1
PG0/SDC1_CLK/PG_EINT0
PE24/LCD_D23
PE23/LCD_D22
PE22/CSI_SDA/TWI1_SDA/UART1_RX
PE21/CSI_SCK/TWI1_SCK/UART1_TX
PE20/CSI_FIELD/CSI_MIPI_MCLK
PE19/CSI_D15/LCD_D21
PE18/CSI_D14/LCD_D20
PE17/CSI_D13/LCD_D19
PE16/CSI_D12/LCD_D18
PE15/CSI_D11/LCD_D15
PE14/CSI_D10/LCD_D14
PE13/CSI_D9/LCD_D13
PE12/CSI_D8/LCD_D12
PE11/CSI_D7/LCD_D11
PE10/CSI_D6/LCD_D10
PE9/CSI_D5/LCD_D7
PE8/CSI_D4/LCD_D6
PE7/CSI_D3/LCD_D5
PE6/CSI_D2/LCD_D4
PE5/CSI_D1/LCD_D3
PE4/CSI_D0/LCD_D2
PE3/CSI_VSYNC/LCD_VSY
PE2/CSI_HSYNC/LCD_HSY
PE1/CSI_MCLK/LCD_DE
PE0/CSI_PCLK/LCD_CLK_
PB0/UART2_TX/PB_EINT0
PB1/UART2_RX/PB_EINT1
PB2/UART2_RTS/PB_EINT2
PB3/UART2_CTS/PB_EINT3
PB4/PWM0/PB_EINT4
PB5/PWM1/PB_EINT5
PB6/TWI0_SCK/PB_EINT6
PB7/TWI0_SDA/PB_EINT7
PB8/TWI1_SCK/UART0_TX/PB_EINT8
PB9/TWI1_SDA/UART0_RX/PB_EINT9
R39 240
C29 100nF
C37 100nF
C30 100nF
C31 10uF
C38 100nF
C39 100nF
C40 100nF
C43 100nF
C44 100nF
C45 100nF
R40 200K
R42 2K
R44 2K
R45 47K
VRA1 C32 1uF
VRA2 C33 10uF
D4 LED
R1 1K

V-CPU
C46 100nF
C47 100nF
C48 1uF
C49 1uF
C50 10uF

V-DRAM
C59 100nF
C62 100nF
C63 1uF
C64 1uF
C65 10uF

V-SYS
C51 100nF
C52 100nF
C56 100nF
C53 1uF
C54 1uF
C55 10uF

V-IO
C57 100nF
C68 100nF
C66 100nF
C58 100nF
C60 1uF
C61 10uF

WIFI

必须上拉DSI才能连到

U7
RTL8723BS
WL_DSI
WL_HOST_WAKE
SD_D2
SD_D3
SD_CMD
SD_CLK
SD_D0
SD_D1
VDD_IO
BT_HOST_WAKE
BT_WAKE
UART_CTS
UART_IN
UART_OUT
BT_DIS
PCM_CLK
PCM_DIN
PCM_SYNC
PCM_DOUT
WL_SDIO_D2
WL_SDIO_D3
WL_SDIO_CMD
WL_SDIO_CLK
WL_SDIO_D0
WL_SDIO_D1
WL_UART_TX
WL_UART_RX
RN1 10K
RN2 10K
C67 100nF
C41 100nF
C42 10uF
AE1
Antenna_Shield

TF

J1
Micro_SD_Card
DAT2
DAT3/CD
CMD
VDD
CLK
VSS
DAT0
DAT1
SHIELD
SDC0_D2
SDC0_D3
SDC0_CMD
SDC0_CLK
SDC0_D0
SDC0_D1
RN3 10K
R5 10K
C14 100nF

FLASH

U6
W25Q128
CS
CLK
DI(IO0)
DO(IO1)
IO2
IO3
VCC
GND
FLASH_CS
SPI0_CLK
SPI0_MOSI
SPI0_MISO
R41 1K
R43 33K
SW1
海龟
C36 100nF