济

深圳市必趣科技3D打印机BTTPi项目



BIGTREETECH

BIGTREETECH BTT-Pi V1.1 220901

BIGTREETECH

SOC: H616

DDR: D2516ECMDXGJD MODULE: TL8189FCB

DCDC: $A\overline{X}P313A$

LDO: XC6220B331MR-G

	_		
₩,	深圳市必趣科技有限公司		
е	BIGTREETECH_BTT-Pi_V1.1		
e 4	Document Number 01_Cover Page	Rev V1.1	
e:	Wednesday, September 14, 2022 Sheet 1 of 16		

BIGTREETECH bttpi V1.1 220901

```
01 Cover Page
02 Index
03 Function Block Diagram
04 Revision History
05 SoC PMU
06 SOC BT-WIFI
07 SOC HDMI ETH USB POWER
08 SOC-DDRCTR LPDDR3 32X1
09 IO-LDO-FAN
10 BT-WIFI Module
11 USB TO UART
12 SoC TF CARD
13 \text{ HDMI2.0}
14 100M-Ethernet
15 HOST-USB
16 AUDIO-VIDEO-IR
```

J7 J3 J4 J11 **U6 J6** J10 USB TO UART MODULE USB OTG HOSTUSB2 RJ45 100M HOSTUSB1 PHONE TL8189FCB HDMI HOSTUSB3 ALDO1 1V8/200mA DLDO1 3V3/300mA SDIO1 LX1_GPU+SYS/1.6A SPI0 LX2 CPU/1.8A SPIO_CS LX3 DRAM/1.8A SPIO_SCK 8 DEBUG_TX SOC_LCD_CS DEBUG_RX SOC_Backlight 13 . PC12 **U4** SOC_TP_IRQ 15 SCL0 SPI1-MOSI SDA0 н616 AXP1530A SPI1-MISO UART3_TX FEL UART3_RX SPIO_MISO RECOVERY UART2_TX 3.3V DBUG TX DBUG RX **U5 U2** LDO CON_254MM_DIP_2X20PZHEN LDO KC6220B331MR-XC6220B331MR-G WIFI IO-VCC **J**5 J1 UD1&UD2 **U3 Y1** SPI0 16BIT_256M SPI1 **U8** J14 24MHz IR DSI Acceler DDR3x2 DCDC 12VTO5V/3A 12V/2A

深圳市必趣科技有限公司

Title BIGTREETECH_BTT-Pi_V1.1

Size Document Number 03_Function Block Diagram

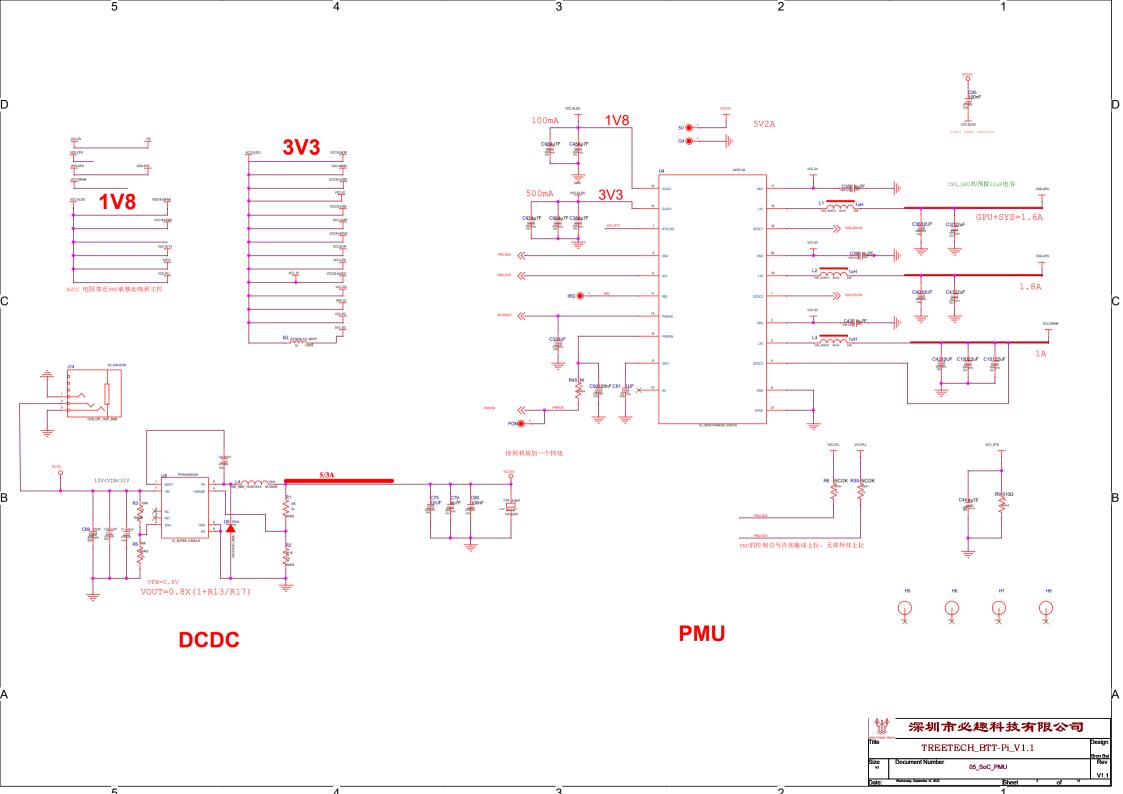
Date: Wednesday, Suplember 14, 2022 Sheet 3 of 16

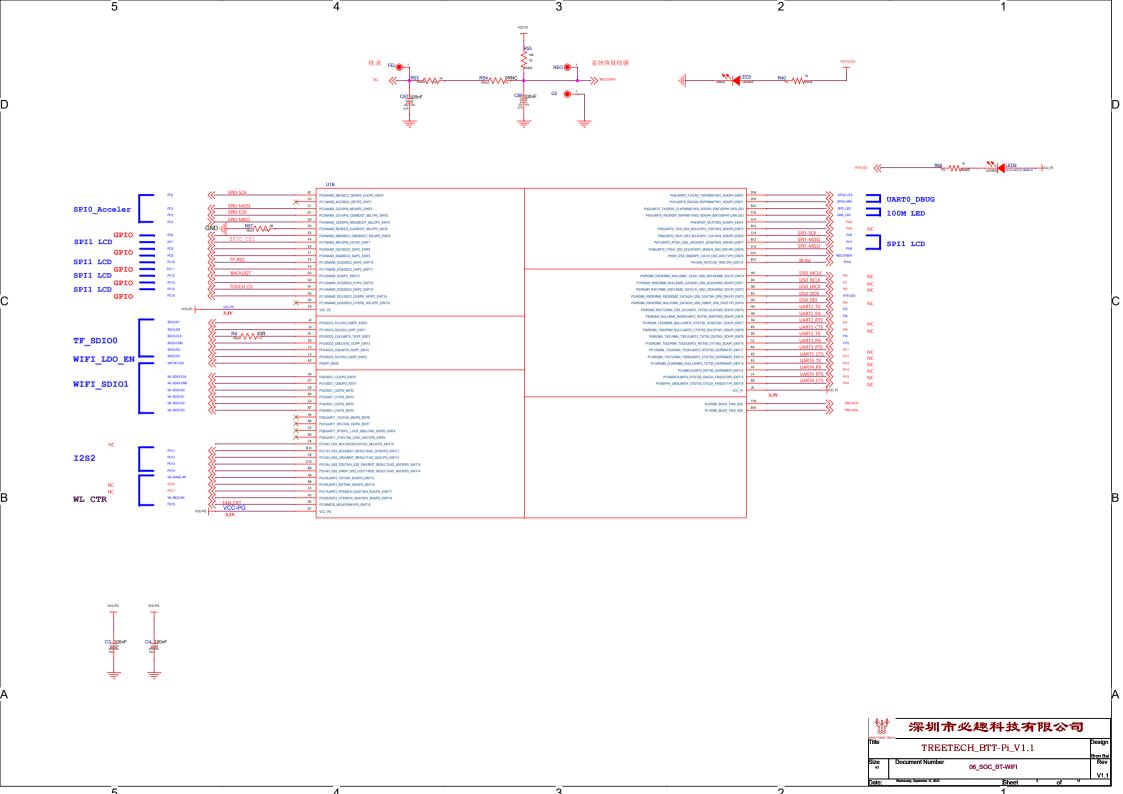
3 2 1

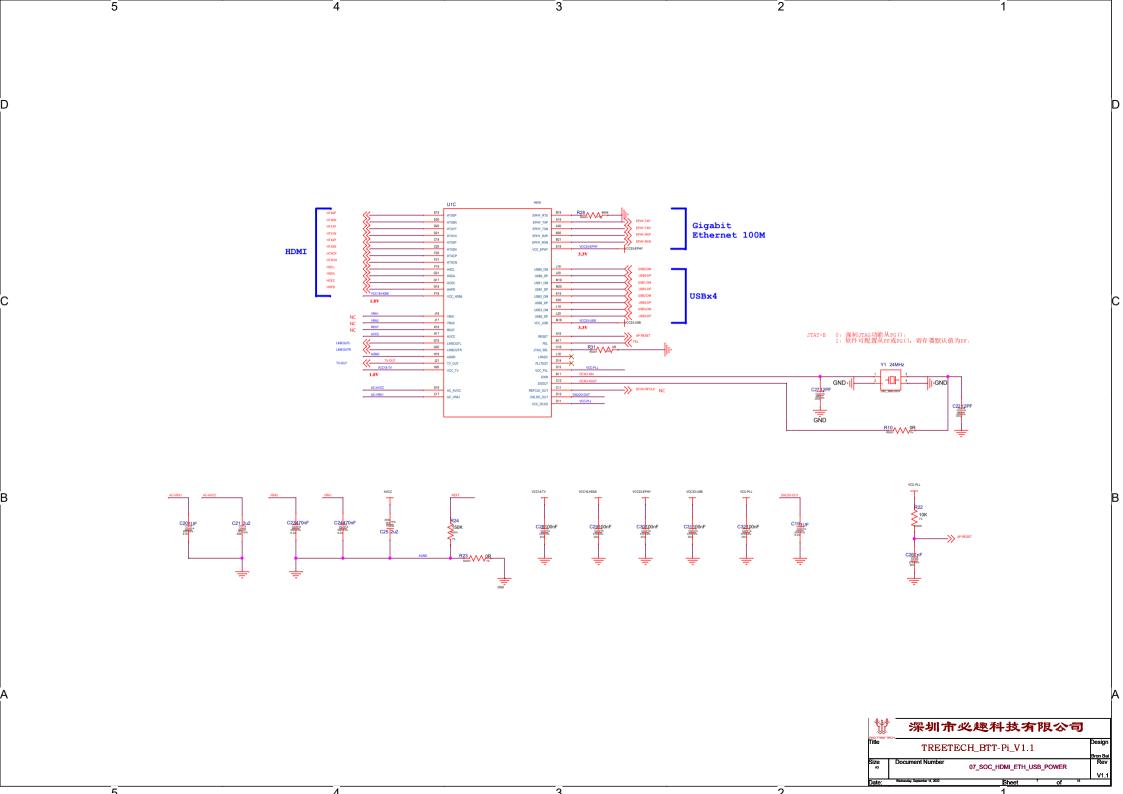
版本历史

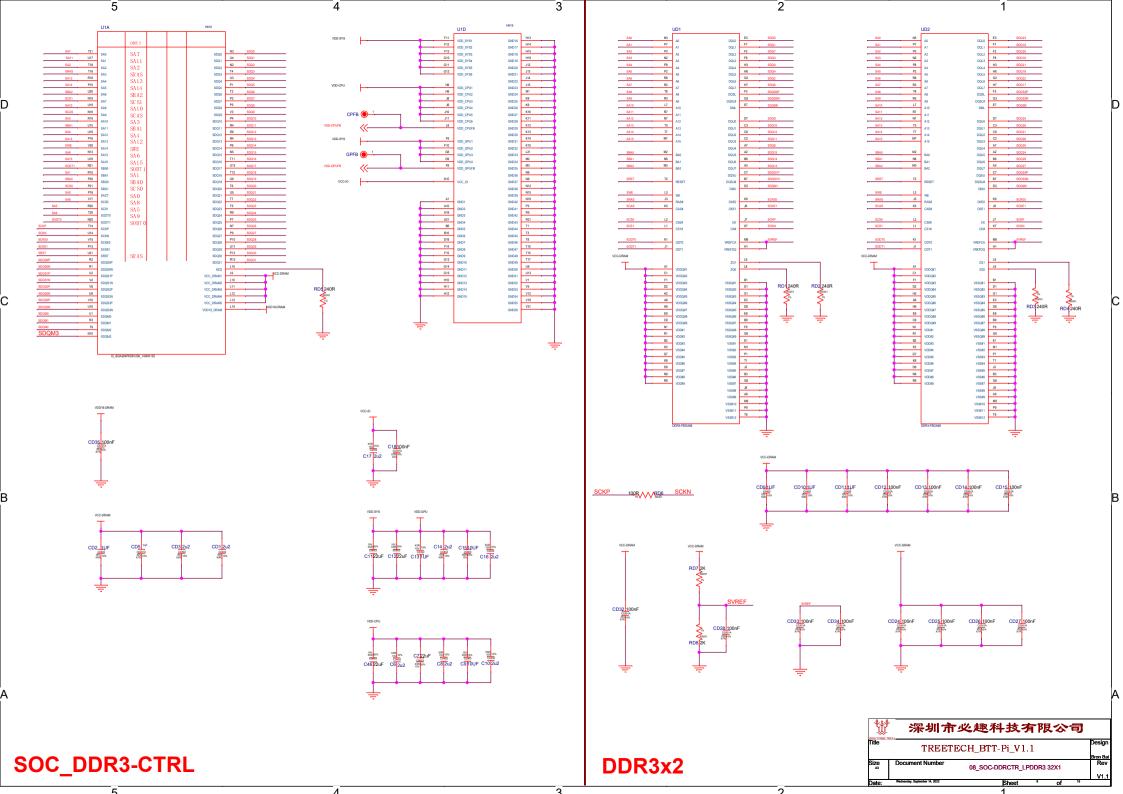
版本	日期	修改者	修改说明	批准
V1.0A	2022.07.05	Byron Bai	1. 在CB1 V2.1设计上修改。 2. 增加网口,增加HDMI,增加HOST-USB。 3. IO口全部拉出来。 4. 增加SPI屏和加速计接口。	
V1.0	2022.08.01	Byron Bai	1. 调换WIFI的方向,天线向这USB那边。 2. CH340灯接在芯片输出端。 3. 更改ESD5341N的封装。	
V1.1	2022.09.01	Byron Bai	1. 调换WIFI的方向,天线向耳机这边。 2. CH340供电接在TYPEC输入端。 3. 更改WIFI供电 LDO 为 XC6220B331MR-G。 4. 取消PG6 PG7 PG8 PG9,更改为PI5 PI6 PI9 PI10。 5. WIFI SDCARD SDIO增加上拉做等长。 6. TF-CARD SDIO做等长。 7. 增加WIFI电源滤波和磁珠。 8. 增加DCDC电源滤波。 9. 增加系统灯。	

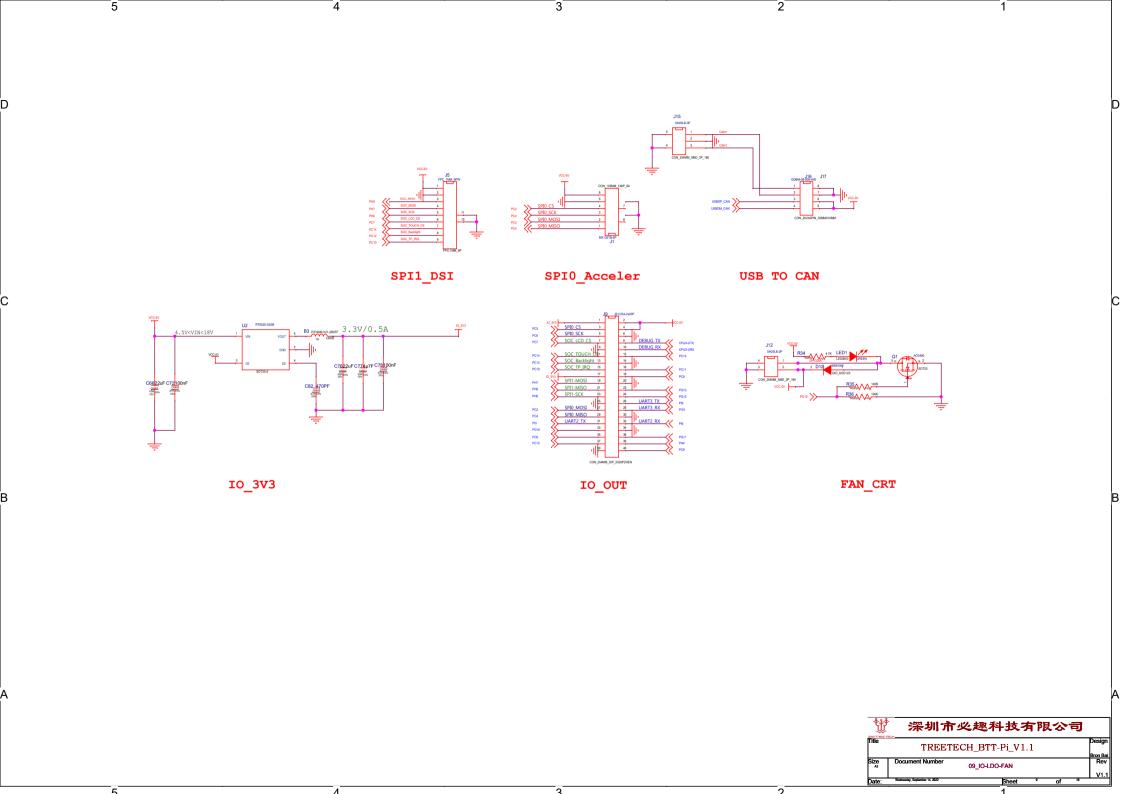
₩	深圳市必趣科技有限公司	
Title	TREETECH_BTT-Pi_V1.1	Desiç Bron E
Size 44	Document Number 04_Revision History	Re V1
Date:	Wednesday, September 14, 2022 Sheet 4 of 16	

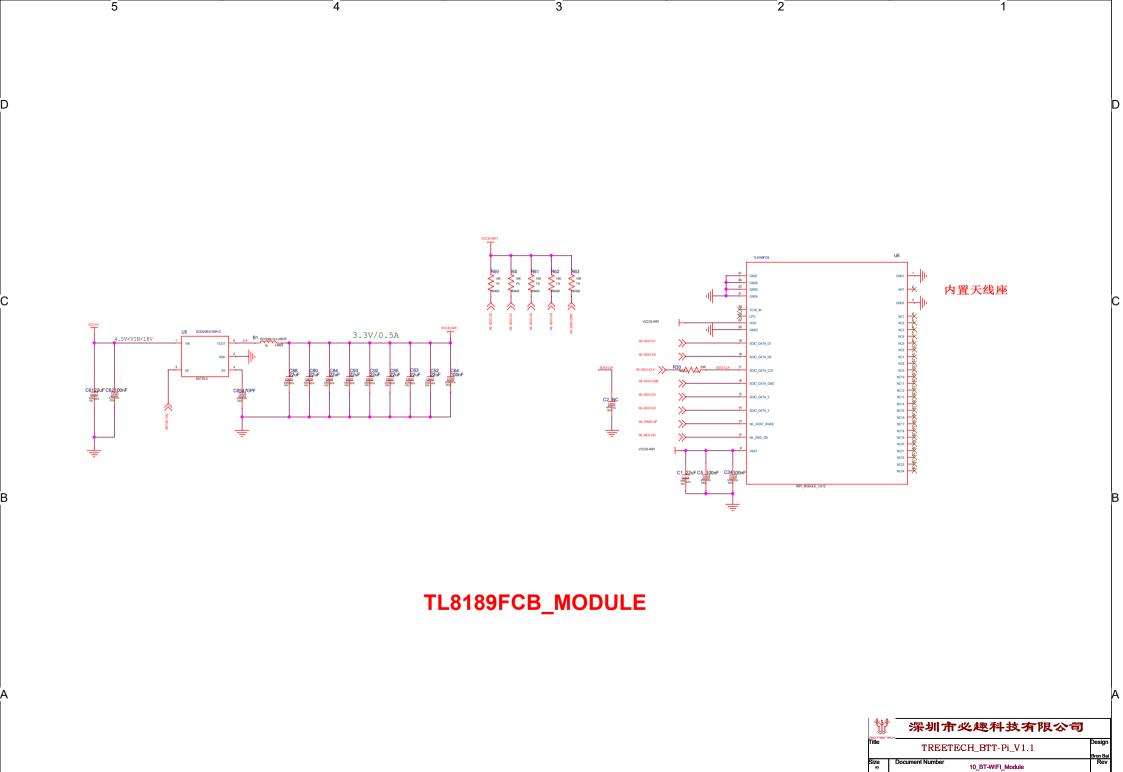


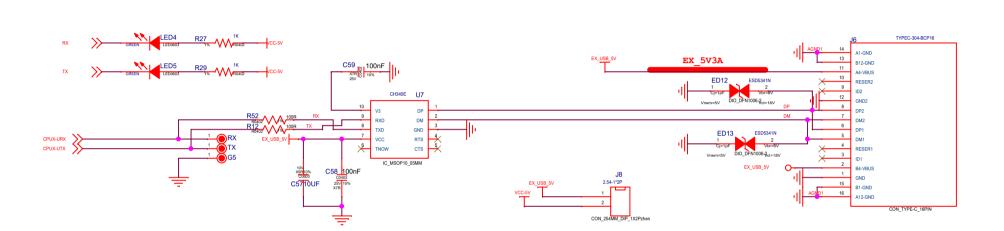






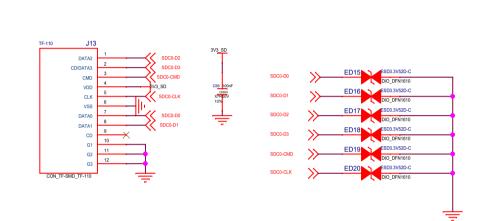






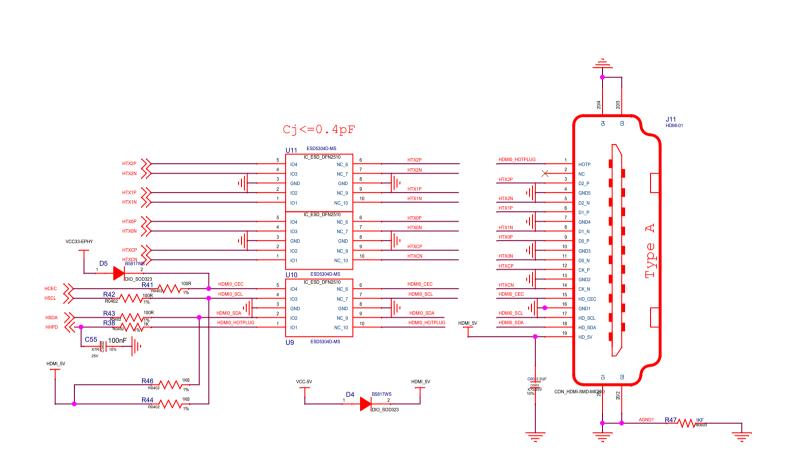
USB To UART





TF_CARD



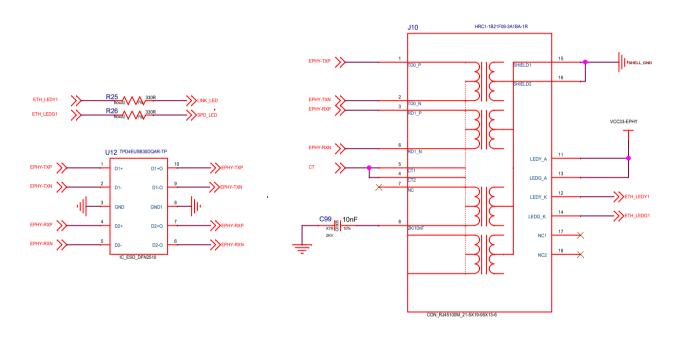


HDMI 2.2





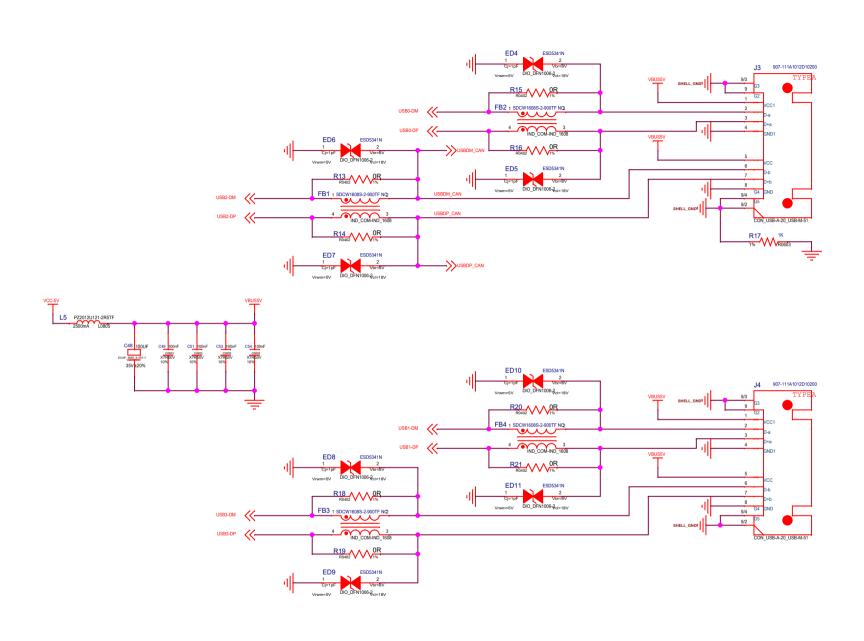
H616核心板 和CM4核心板公用



ETHERNET ESD

RJ45-100M

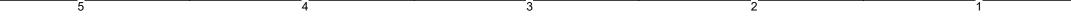
####	深圳市必趣科技有限公司]
Title	TREETECH_BTT-Pi_V1.1	Desigr Bron Ba
Size ^{A4}	Document Number 14_100M-Ethernet	Rev V1.
Date:	Wednesday, September 14, 2022 Sheet 14 of 16	•

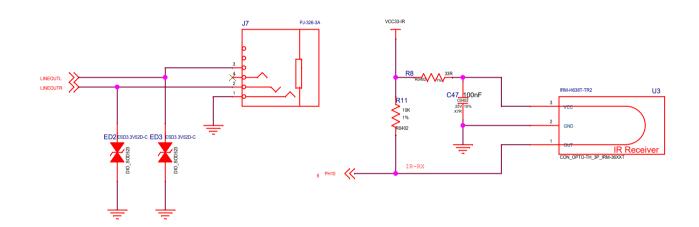


5

HOST USB2.0

₩	深圳市場	心趣科技	有限	1公	司	
Title	TREETEC	H_BTT-Pi_V1	.1			Desiç Bron E
Size 4	Document Number	15_HOST-USB				Re
Date:	Wednesday, September 14, 2022	Sheet	15	of	16	V1





VIDOE AUDIO IR-MODULE

