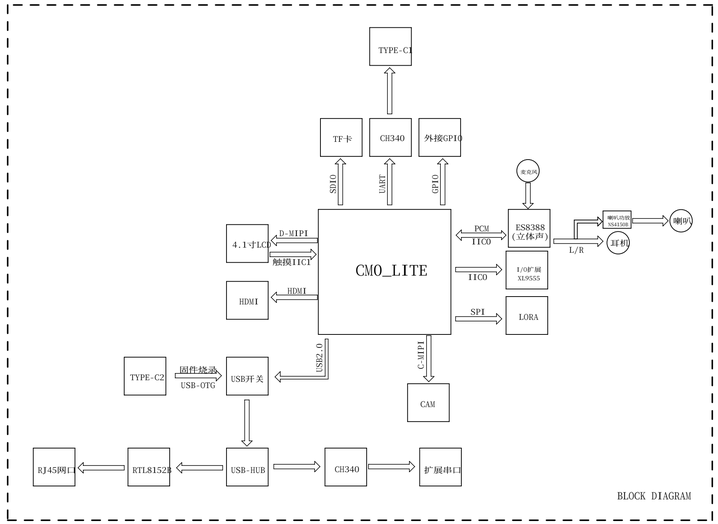
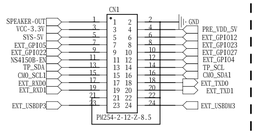
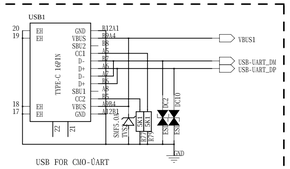
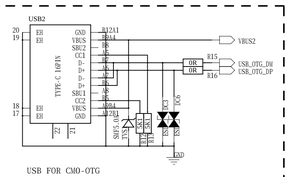
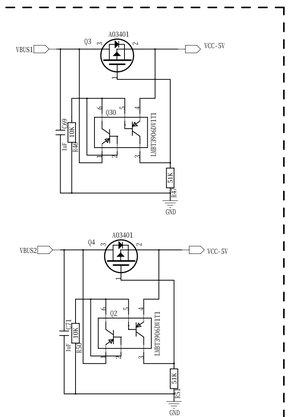

TYPE-C口
TF卡
CH340
外接GPIO
SDIO
UART
GPIO
喇叭/功放
ES8388
(立体声IN)
喇叭/功放
XM4309
喇叭
耳机
L/R
PCM
I2C0
4.1寸TLCD
D-MIPI
触摸I2C1
CMO_LITE
I2C0
I/O扩展
XL9555
HDMI
HDMI
SPI
LORA
USB2.0
C-MIPI
TYPE-C2
固件烧录
USB-OTG
USB开关
CAM
RJ45网口
RTL8152B
USB-HUB
CH340
扩展USB口
BLOCK DIAGRAM

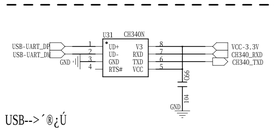

CN1
SPEAKER-OUT
VCC-3.3V
SYS-5V
EXT_GPIO2
EXT_GPIO22
NS4150B-EN
TP_SDA
CM0_SCL
EXT_RXD0
EXT_RXD1
EXT_USBOP2
PRE_VDD_5V
EXT_GPIO12
EXT_GPIO23
EXT_GPIO27
EXT_GPIO4
TP_SCL
CM0_SDA1
EXT_TXD0
EXT_TXD1
EXT_USBOM3
PH254-2-12-Z-8.5

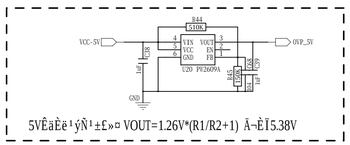

USB1
TYPE-C 16PIN
VBUS1
USB-UART_DP
USB-UART_DM
USB FOR CM0-UART

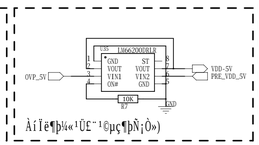

USB2
TYPE-C 16PIN
VBUS2
USB_OTG_DP
USB_OTG_DM
USB FOR CM0-OTG

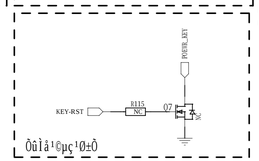

A03401
VBUS1
VCC-5V
LBST3906DT1T1
VBUS2
USB防电流反灌保护电路

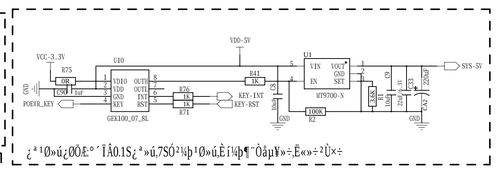
KEY
POEWR_KEY
BOOT
CM0_RST
TC-5601
GND

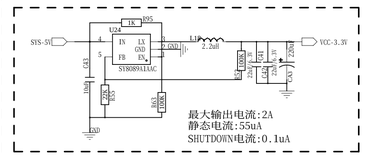

USB-UART_DM
USB-UART_DP
GND
CH340
VCC-3.3V
CH340_RXD
CH340_TXD
USB-->´®¿Ú


VCC-5V
OVP_5V
5VÊäÈë¹ýÑ¹±£»¤ VOUT=1.26V*(R1/R2+1) Ã¬ÈÏ5.38V

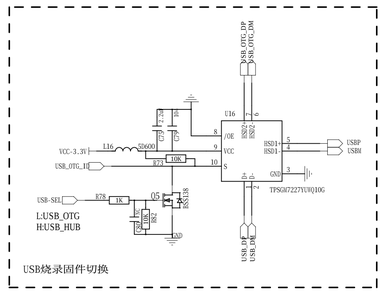

OVP_5V
VDD-5V
PRE_VDD_5V
ÀíÏëµ¶þ¼«¹Ü£¨µç¶þ¼«Ñ¡Ô»)

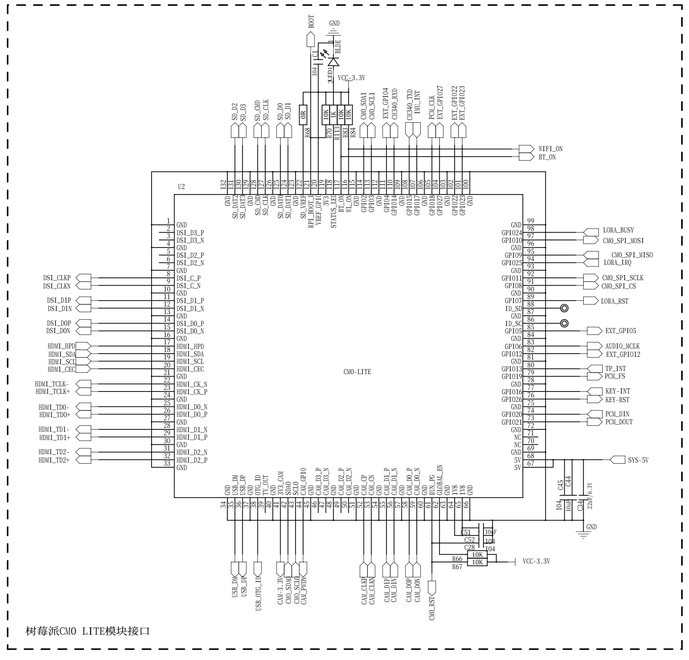

POWER_KEY
KEY-RST
ÔöÌå¹©µç¹Ø±Õ

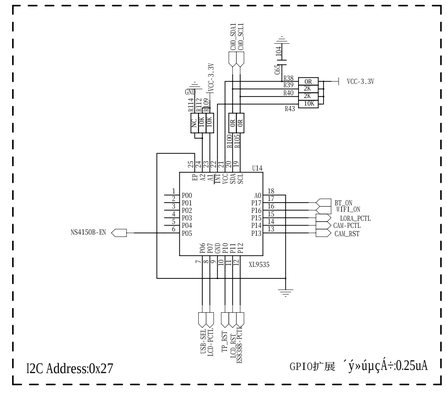

VCC-3.3V
VDD-5V
SYS-5V
KEY-INT
KEY-RST
HT97200-N
GEK100_07_SL
¿ª¹Ø»ú¿ØÔ£°´ÎÂ0.1S¿ª»ú,7SÓ²¼þ¹Ø»ú,È´¼þ¶¯ÔÀíÏ¸Ê«»÷Ù×÷

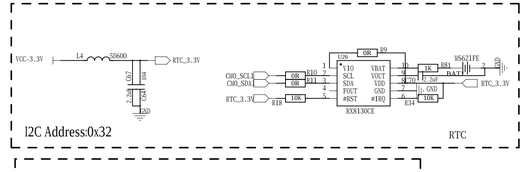

SYS-5V
VCC-3.3V
ST8089XLTAC
最大输出电流:2A
静态电流:55uA
SHUTDOWN电流:0.1uA

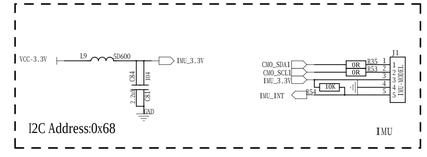


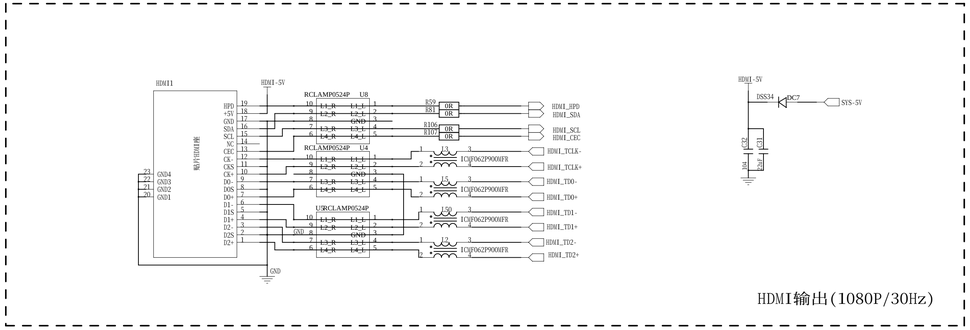

USB_OTG_DP
USB_OTG_DM
VCC-3.3V
USB_OTG_ID
USB-SEL
L16
S0600
C18
C19
R27
10K
R28
1K
Q5
MMBT3906
C20
C21
R26
R25
U16
OE
VCC
S
VBUS
HSD2-
HSD2+
HSD1-
HSD1+
GND
TPS3F7227YUBQ10G
USBP
USBM
USB_DP
USB_DM
L:USB_OTG
H:USB_HUB
USB烧录固件切换


3VOUT
GND
LED0
LED1
VCC_3.3V
SD_D2
SD_D0
SD_CMD
SD_CLK
SD_D3
SD_D1
CMO_SDA1
CMO_SCL1
EXT_GPIO04
EXT_GPIO03
HDMI_TX
TWI_INT
PCM_CLK
EXT_GPIO27
EXT_GPIO23
WIFI_ON
BT_ON
U2
CM0-LITE
DSI_CLKP
DSI_CLKN
DSI_D1P
DSI_D1N
DSI_D0P
DSI_D0N
HDMI_HPD
HDMI_SDA
HDMI_SCL
HDMI_CEC
HDMI_TCLK-
HDMI_TCLK+
HDMI_TD0-
HDMI_TD0+
HDMI_TD1-
HDMI_TD1+
HDMI_TD2-
HDMI_TD2+
LORA_BUSY
CM0_SPI_MOSI
CM0_SPI_MISO
LORA_TRQ
CM0_SPI_SCLK
CM0_SPI_CS
LORA_RST
EXT_GPIO5
AUDIO_MCLK
EXT_GPIO12
TP_INT
PCM_FS
KEY-INT
KEY-RST
PCM_DIN
PCM_DOUT
SYS-5V
CAM_CLKP
CAM_CLKN
CAM_D1P
CAM_D1N
CAM_D0P
CAM_D0N
CMO_RST
树莓派CM0 LITE模块接口

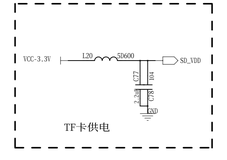

CM0_SDA1
CM0_SCL1
VCC-3.3V
R38
R40
R43
EEP_A0
EEP_A1
EEP_A2
SDA
SCL
U14
P00
P01
P02
P03
P04
P05
P06
P07
P10
P11
P12
P13
P14
P15
P16
P17
BT_ON
WIFI_ON
LORA_PCTL
CAM-PCTL
CAM_RST
NS4150B-EN
XL9535
CMO_SDA1
CMO_SCL1
TP_RST
CTP_RST
BACKLIGHT_PWM
I2C Address:0x27
GP10扩展 ´ý»úµçÁ÷:0.25uA

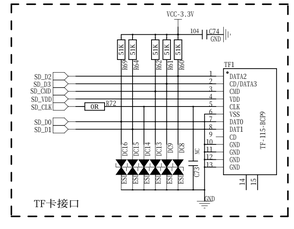

VCC-3.3V
L4
S0600
RTC_3.3V
C87
104
C88
2.2UF
GND
CM0_SCL1
CM0_SDA1
R40
R41
10K
R18
U26
V1O
SCL
SDA
FOUT
#RST
VBAT
VOUT
VDD
GND
#IRQ
RX8130CE
R9
0R
BS1
BAT
SS621FE
C89
0.1UF
R34
I2C Address:0x32
RTC

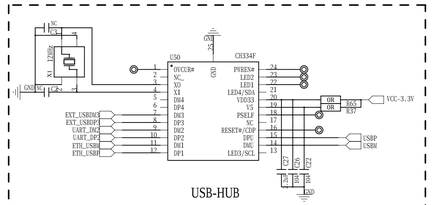

VCC-3.3V
L9
S0600
IMU_3.3V
C84
104
C83
2.2UF
GND
CM0_SDA1
CM0_SCL1
IMU_3.3V
IMU_INT
R35
R33
R24
10K
I1
SDA
SCL
INT
GND
VDD
VDDIO
ICM-42688-P
I2C Address:0x68
IMU

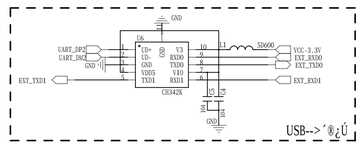

HDMI1
HDMI-5V
RCLAMP0524P U8
RCLAMP0524P U4
RCLAMP0524P U5
RCLAMP0524P U6
HPD
+5V
GND
SDA
SCL
NC
CEC
CK-
CK+
D0-
D0+
D1-
D1+
D2-
D2+
GND1
GND2
GND3
GND4
R59
R58
R106
R107
0R
HDMI_HPD
HDMI_SDA
HDMI_SCL
HDMI_CEC
HDMI_TCLK-
HDMI_TCLK+
HDMI_TD0-
HDMI_TD0+
HDMI_TD1-
HDMI_TD1+
HDMI_TD2-
HDMI_TD2+
ICGF062P900HFR
GND
HDMI输出(1080P/30Hz)

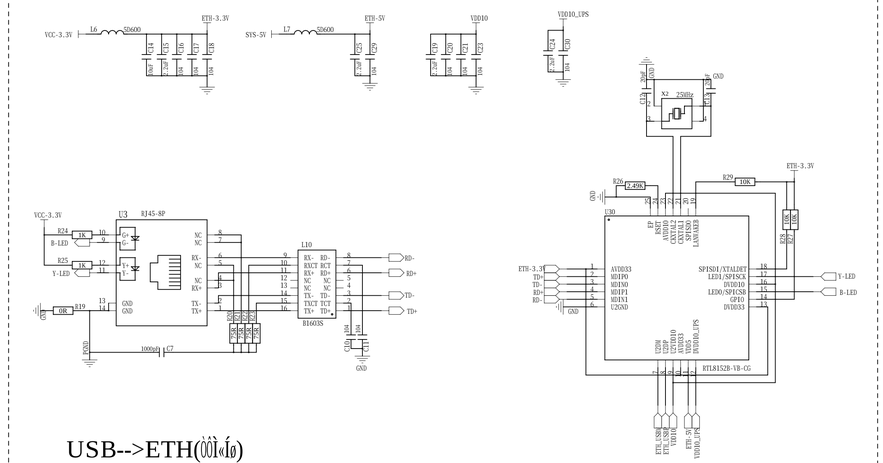
HDMI-5V
0SS34
DC7
SYS-5V
C52
104
C51
2.2UF
GND


VCC-3.3V
L20
S0600
SD_VDD
C77
104
C78
2.2UF
GND
TF卡供电

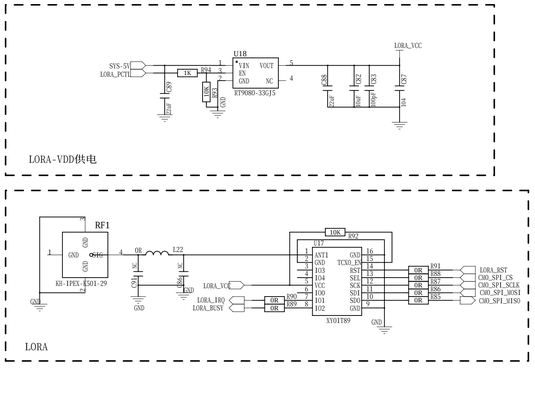

VCC-3.3V
104
C74
GND
R45
R46
R47
R48
R49
R50
SD_D2
SD_D3
SD_CMD
SD_VDD
SD_CLK
SD_D0
SD_D1
0R
R22
DATA2
CD/DATA3
CMD
VDD
CLK
VSS
DATD
DAT1
CD
GND
GND
GND
GND
TF-115-HCP8
TF1
C75
C76
C79
C80
C81
C82
C85
C86
TF卡接口


VCC
C4
GND
X1
12MHz
C3
U50
0VCC/8#
NC_
XO
XI
DM4
DP4
DM3
DP3
DM2
DP2
DM1
DP1
GND
CH334F
PHREN#
LED2
LED1
LED4/SDA
VDD33
V5
PSELF
NC
RESET#/CS#
DPC
DMC
LED3/SCL
R65
4K7
VCC-3.3V
EXT_USBDM
EXT_USBDP
UART_DM
UART_DP
ETH_USBM
ETH_USBP
USBP
USBM
C23
C26
C22
C24
C25
C27
GND
USB-HUB

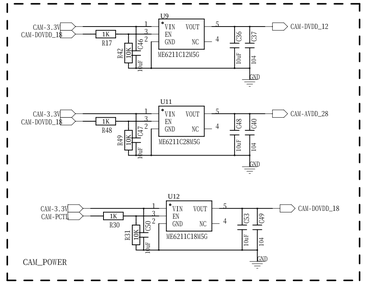

GND
U6
UD+
UD-
GND
VDD5
TXD1
GND
V3
RXD0
TXD0
V10
RXD1
CH342K
S1B600
VCC-3.3V
EXT_RXD0
EXT_TXD0
EXT_RXD1
UART_DP2
UART_DM2
EXT_TXD1
C5
C6
C7
C8
GND
USB--> ´®¿Ú

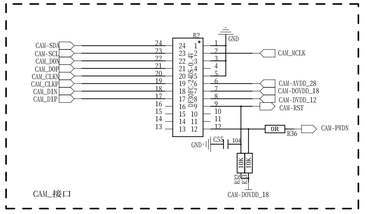


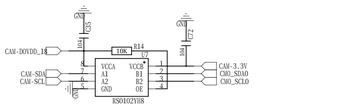
USB-->ETH(ÔÒÌ«Íø)

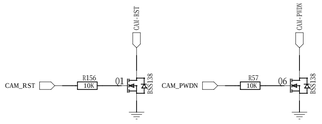

LORA_VCC
U18
SYS-5V
LORA_PCTL
1K
R84
R85
10K
R83
C85
100nF
VIN
EN
GND
VOUT
NC
RT9080-33GJ5
C88
C89
C90
C91
C92
C93
C94
10uF
100nF
100nF
10uF
10uF
LORA-VDD供电
RF1
GND
GND
GND
HG
KH-IPEX-E501-29
L22
0R
C86
100nF
C87
100nF
GND
GND
GND
LORA_VCC
LORA_IRQ
LORA_RST
R90
R89
0R
0R
10K
R92
U17
ANT1
GND
IO3
IO4
VCC
IO0
IO1
IO2
GND
TCXO_EN
BST
SEL
SCK
SDI
SDO
GND
XY01T89
R91
R88
R87
R86
R85
0R
0R
0R
0R
0R
LORA_RST
CM0_SPI_CS
CM0_SPI_SCLK
CM0_SPI_MOSI
CM0_SPI_MISO
LORA
GND

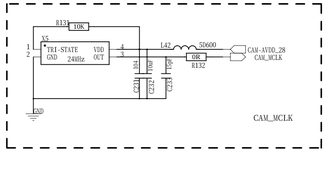
1:SDA	24:GND
2:SCL	23:MCLK
3:MDN0	22:GND
4:MDP0	21:PCLK
5:MCN	20:GND
6:MCP	19:AVDD
7:MDN1	18:DOVDD
8:MDP1	17:DVDD
9:NC	16:RESET
10:NC	15:VSYNC
11:NC	14:HREF
12:NC	13:PWDN

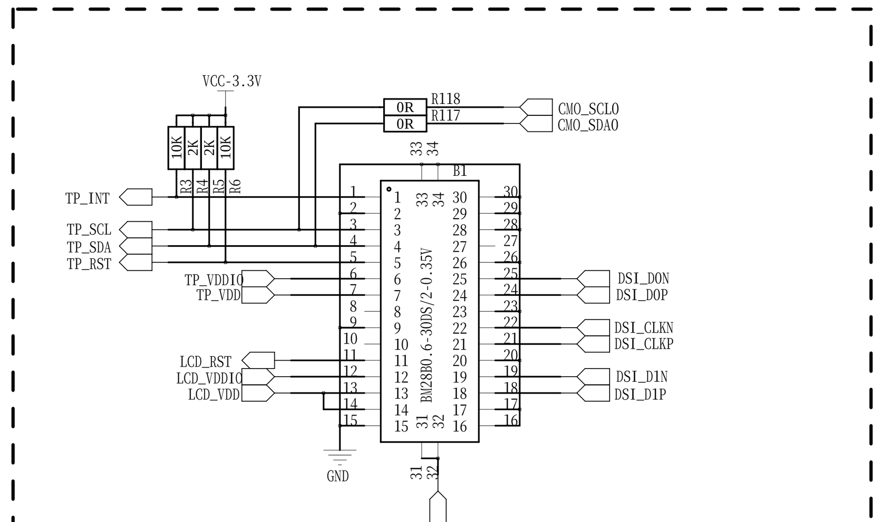




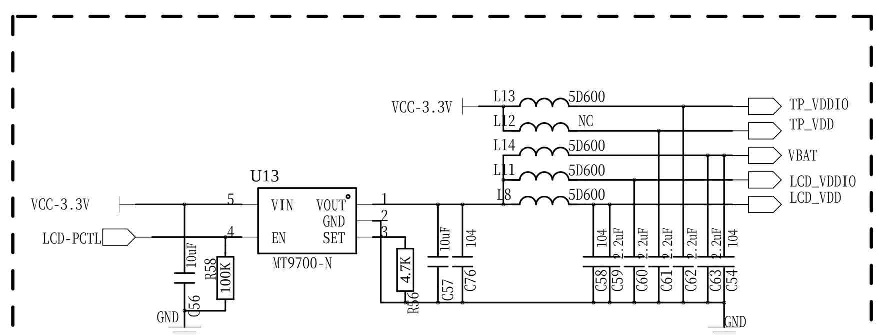




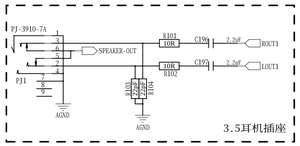



VCC-3.3V
R118
R117
0R
0R
CMO_SCL0
CMO_SDA0
10K
2K
2K
10K
R3
R4
R5
R6
B1
TP_INT
TP_SCL
TP_SDA
TP_RST
TP_VDDIO
TP_VDD
LCD_RST
LCD_VDDIO
LCD_VDD
BM28B0.6-30DS/2-0.35V
DSI_D0N
DSI_D0P
DSI_CLKN
DSI_CLKP
DSI_D1N
DSI_D1P
GND
VBAT

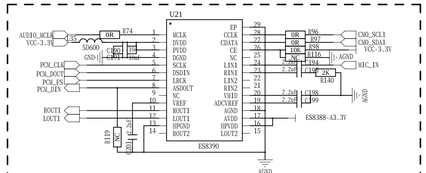
TFT接口


VCC-3.3V
L13
L12
L14
L11
L8
5D600
NC
TP_VDDIO
TP_VDD
VBAT
LCD_VDDIO
LCD_VDD
U13
VIN
VOUT
GND
EN
SET
MT9700-N
LCD-PCTL
10uF
R58
100K
C56
4.7K
R36
C57
C76
104
2.2uF
C58
C59
C60
C61
C62
C63
C54
GND

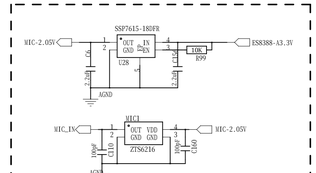
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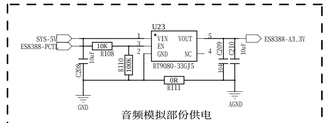
3.5耳机插座



7_BIT ADDRESS: 0X11 最大工作电流:20mA



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音频模拟部份供电