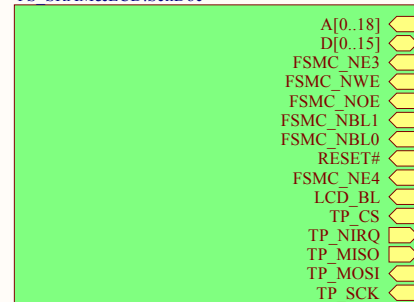


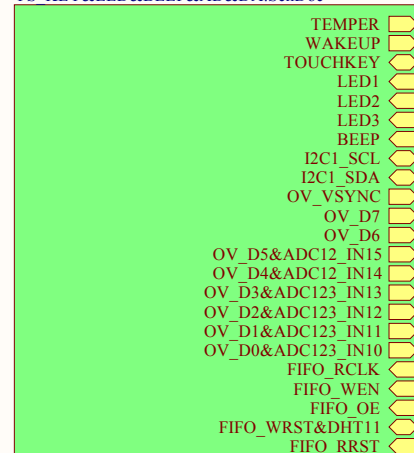
FSMC_SRAM&LCD(NO.3)
YS_SRAM&LCD.SchDoc



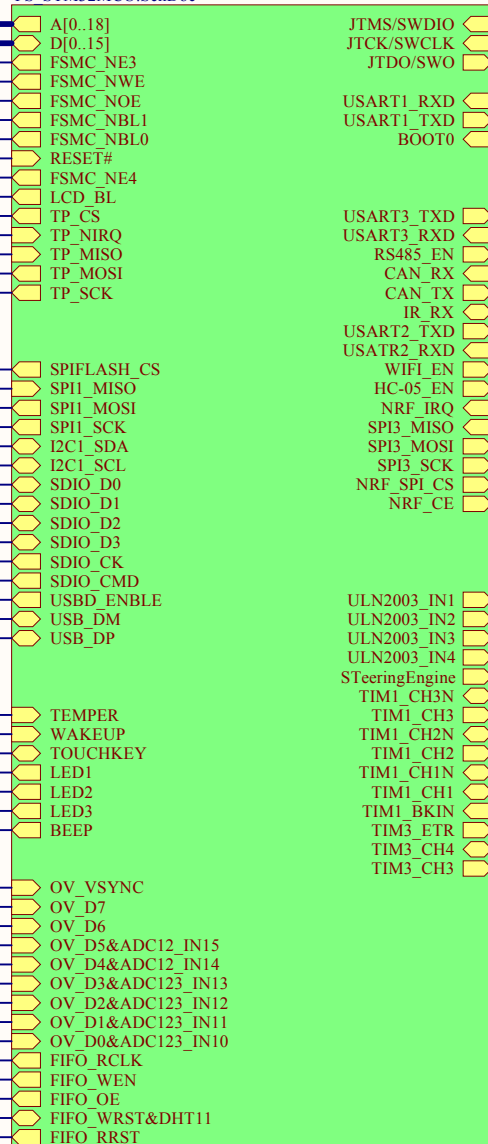
MEMORY(NO.6)
YS_SPIFlash&EEPROM&SDCard&USBDevice.SchDoc



GPIO(NO.8)
YS_KEY&LED&BEEP&AD&DA.SchDoc



STM32MCU(NO.2)
YS_STM32MCU.SchDoc

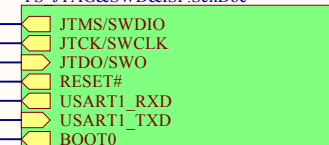


JTMS/SWDIO
JTCK/SWCLK
JTDO/SWO
USART1_RXD
USART1_TXD
BOOT0

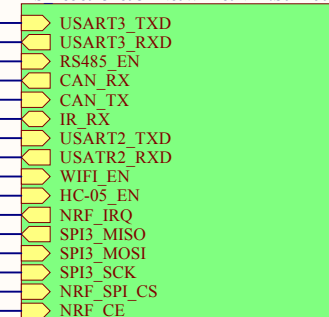
USART3_TXD
USART3_RXD
RS485_EN
CAN_RX
CAN_TX
IR_RX
USART2_TXD
USATR2_RXD
WIFI_EN
HC-05_EN
NRF_IRQ
SPI3_MISO
SPI3_MOSI
SPI3_SCK
NRF_SPI_CS
NRF_CE

UIN2003_IN1
UIN2003_IN2
UIN2003_IN3
UIN2003_IN4
STeeringEngine
TIM1_CH3N
TIM1_CH3
TIM1_CH2N
TIM1_CH2
TIM1_CH1N
TIM1_CH1
TIM1_BKIN
TIM3_ETR
TIM3_CH4
TIM3_CH3

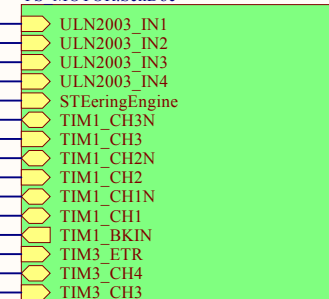
DEBUG(NO.5)
YS_JTAG&SWD&ISP.SchDoc



CONNECT(NO.7)
YS_485&232&CAN&WIFI&NRF.SchDoc



MOTOR(NO.9)
YS_MOTOR.SchDoc



ETHERNET(NO.10)
YS_W5500.SchDoc

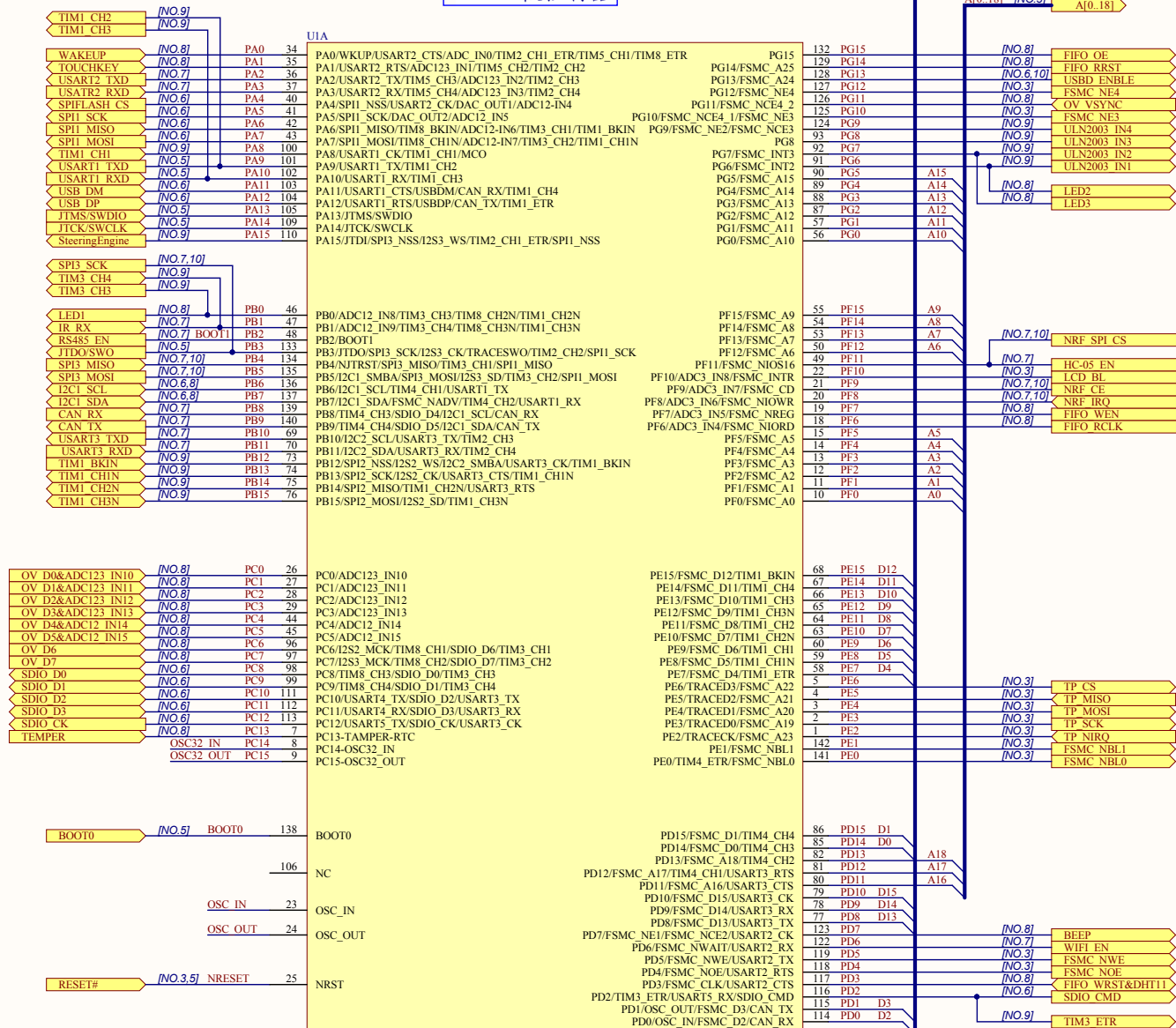


POWER
YS_STM32Power.SchDoc



Title		YS_STM32F103		www.ing10bbs.com	
Size	A4	Number	NO.1		Revision
					1.0
Date:	2016/3/28		Sheet	of 10	
File:	F:\光盘资料\1\YS_STM32F103.SchDoc		Drawn By:		

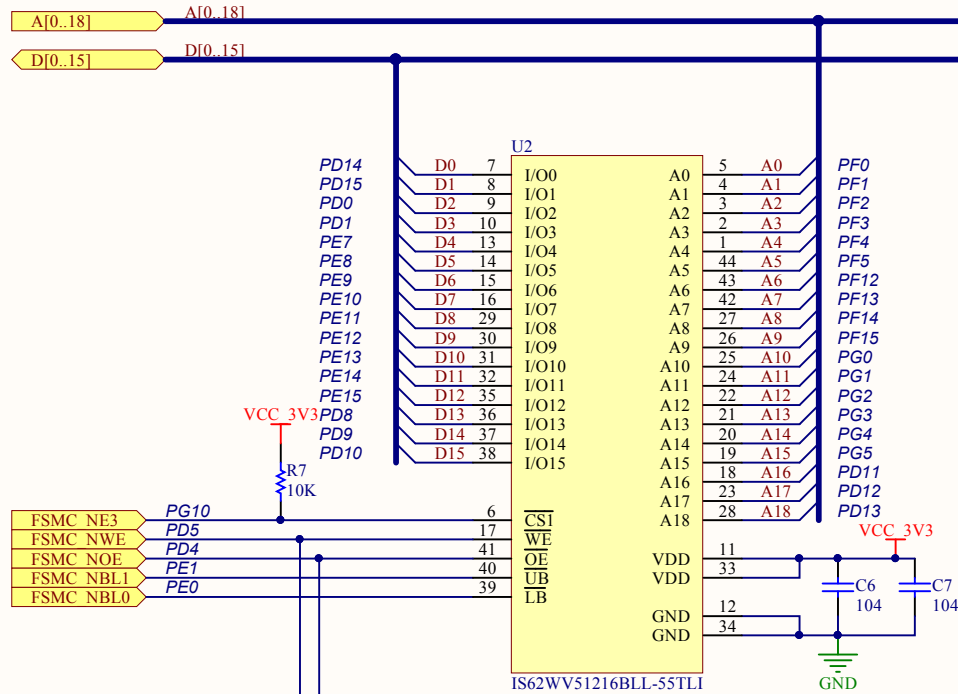
STM32微控制器



FSMC总线

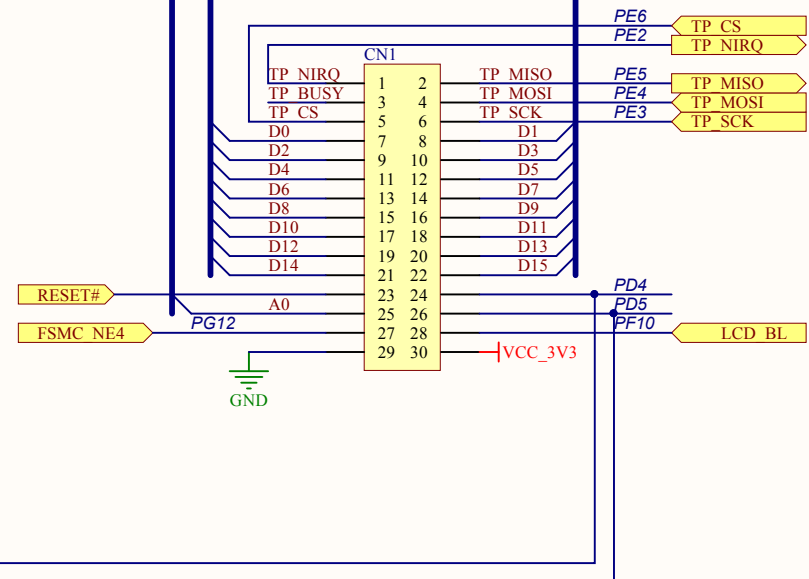
扩展SRAM

总线地址: 0x68000000(FSMC_Bank1_NORSRAM3)



3.5寸电阻屏

命令总线地址: 0x6C000000
数据总线地址: 0x6C000002



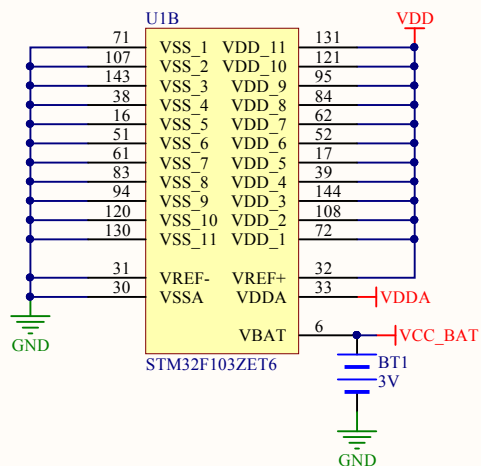
www.ing10bbs.com

Title 与FSMC总线相关的SRAM和液晶控制		
Size A4	Number NO.3	Revision 1.0
Date: 2016/3/28	Sheet of 10	
File: F:\光盘资料\3.5寸SRAM&LCD.SchDoc	Drawn By:	

STM32电源

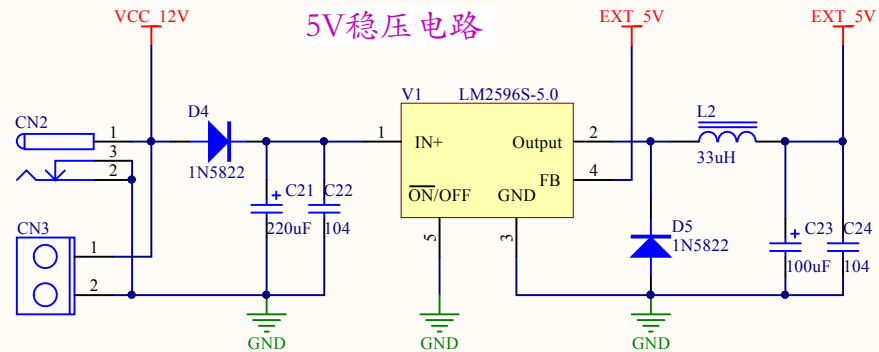
备用电源选择

在断电是保持内部RTC始终正常运行，反正断电后RTC数据丢失，重新启动时从默认时间重新开始计数



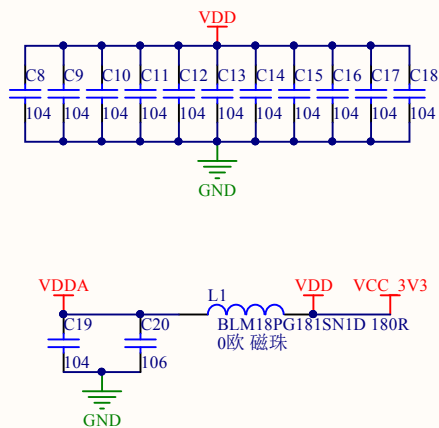
开发板电源

5V稳压电路

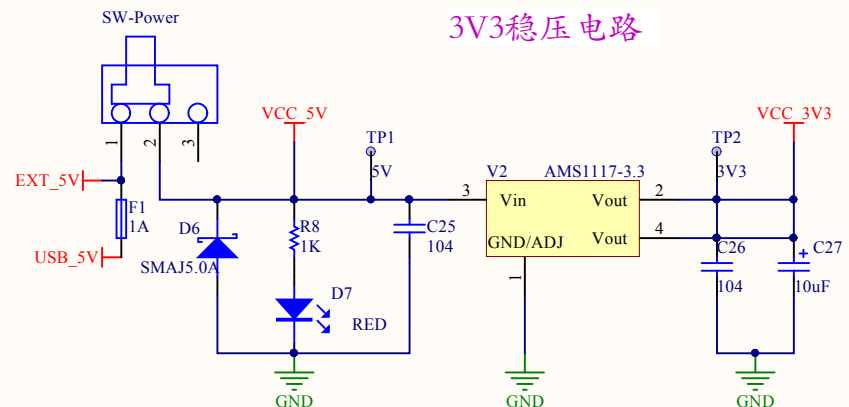


电源滤波

使用电容，电感保证供电平稳，过滤波动

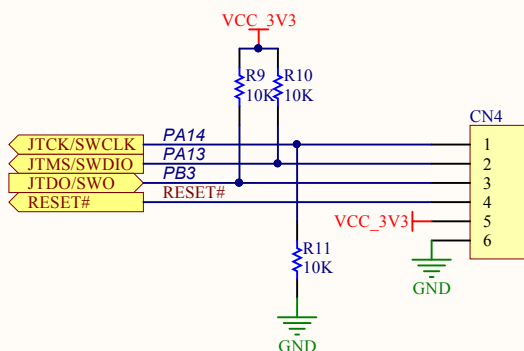


3V3稳压电路

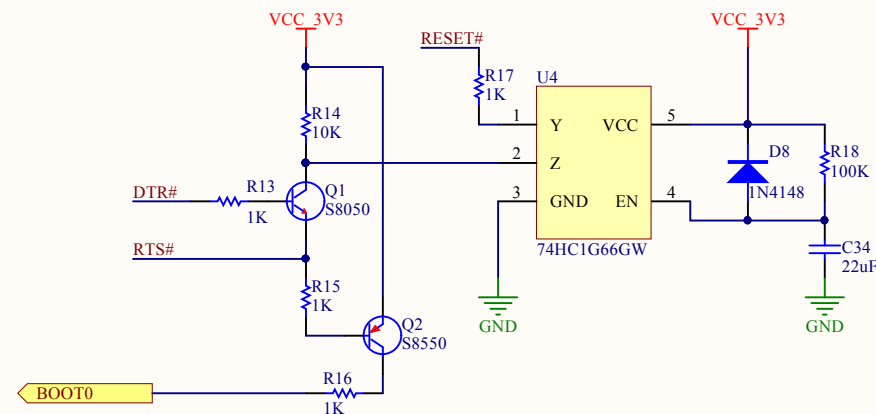
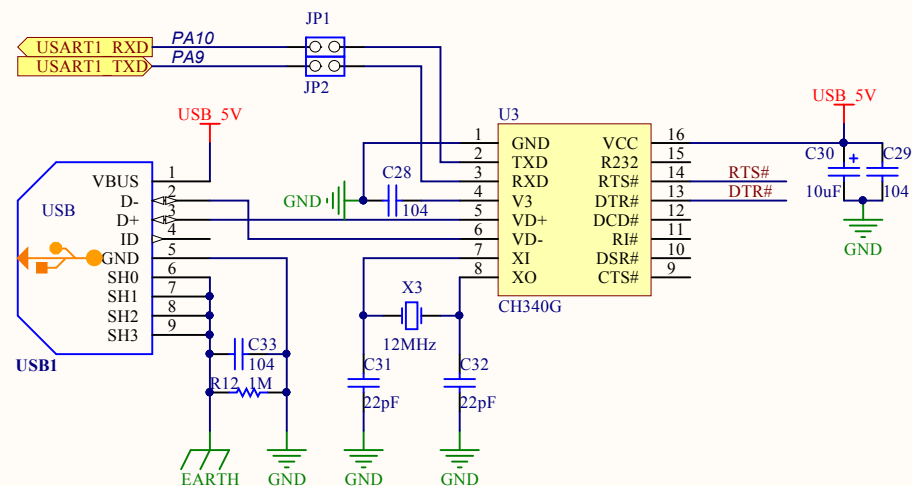


Title			电源管理
Size			NO.4
Number			Revision
A4			1.0
Date:	2016/3/28	Sheet of	10
File:	F:\光盘资料\4YS STM32Power.SchDoc	Drawn By:	

仿真器下载

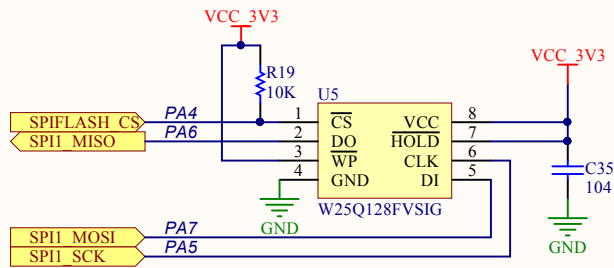


ISP下载

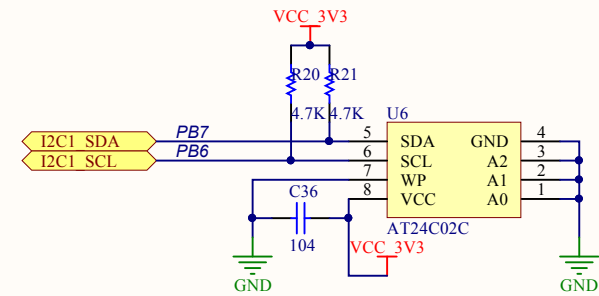


Title		STM32仿真及下载	
Size		www.ing10bbs.com	
A4		NO.5	
Date:		Revision	
2016/3/28		1.0	
File:		F:\光盘资料\5SYS_JTAG&SWD&ISP_Solder By:	

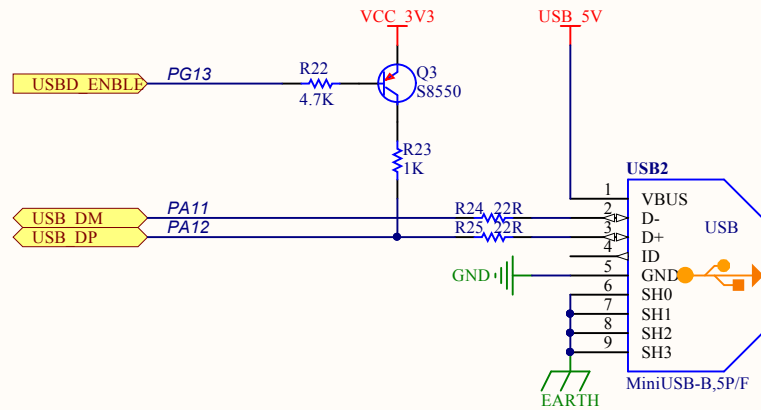
外部扩展SPI Flash



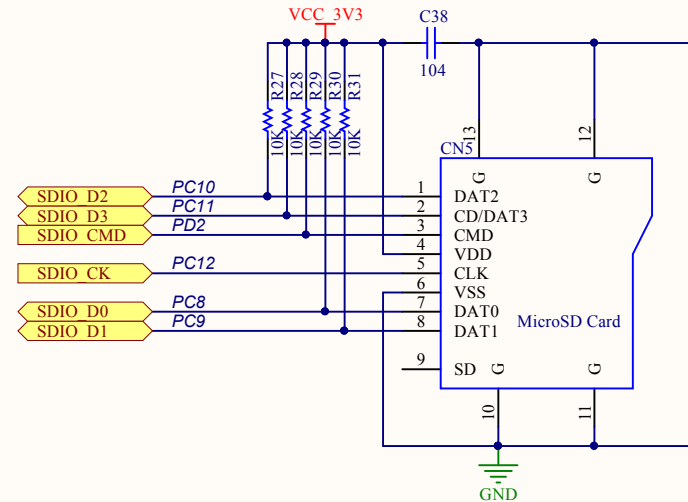
EEPROM



USB从设备



SD卡



Title			各类存储设备	
Size			www.ing10bbs.com	
A4			NO.6	
Date:			Revision	
2016/3/28			1.0	
File:			Sheet of 10	
F:\光盘资料\6YS SPIFlash&EEPROM&SD卡&USBDevice.SchDoc				

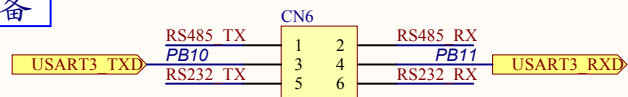
1

2

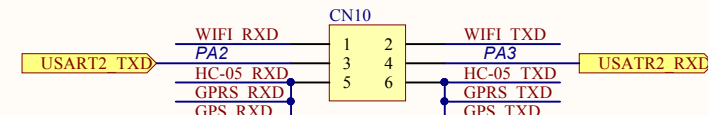
3

4

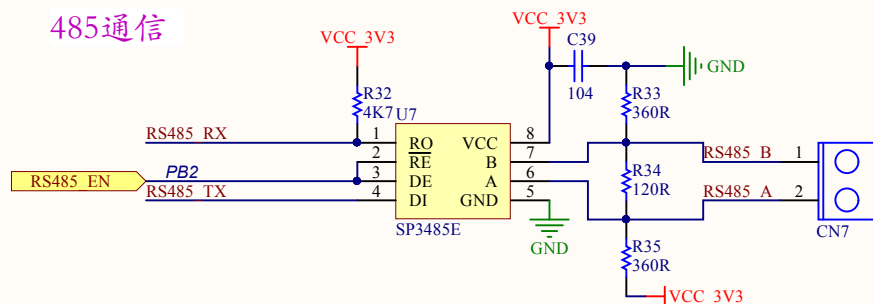
串口3设备



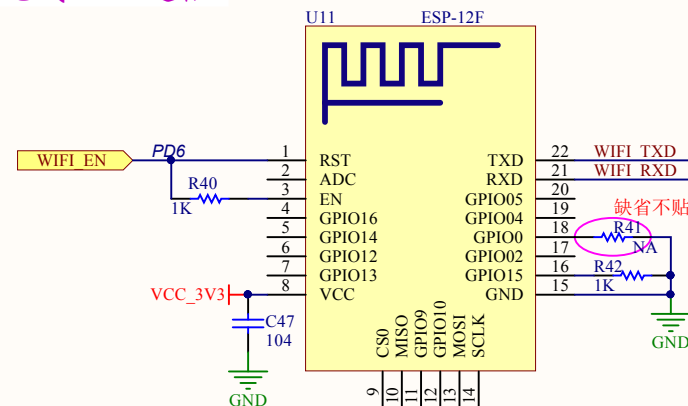
串口2设备



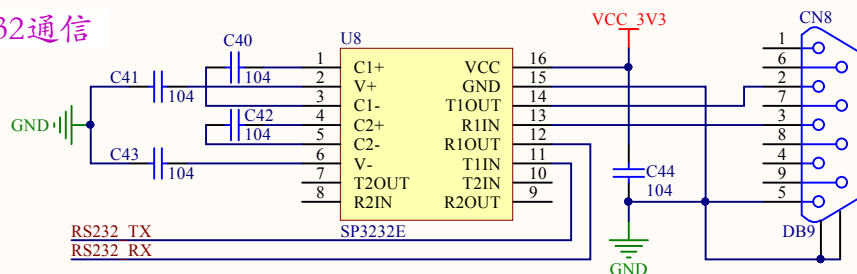
485通信



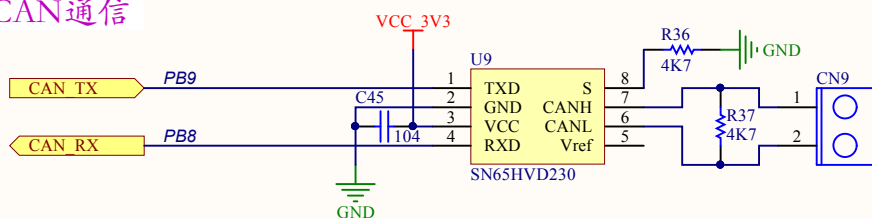
无线WIFI通信



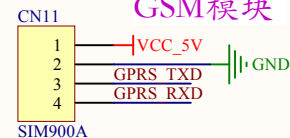
232通信



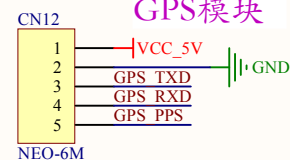
CAN通信



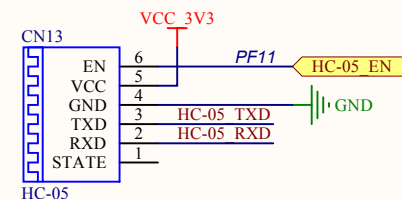
GSM模块



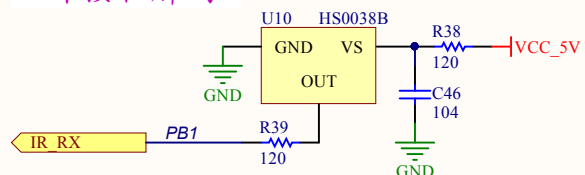
GPS模块



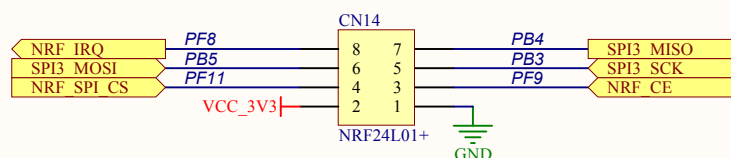
HC-05蓝牙模块



红外接收解码



2.4G无线通信



Title 各类通信接口

Size	Number	Revision
A4	NO.7	1.0
Date:	2016/3/28	Sheet of 10
File:	F:\光盘资料\A7YS 485&232&CAN&WIFI&GPS	SchDoc

1

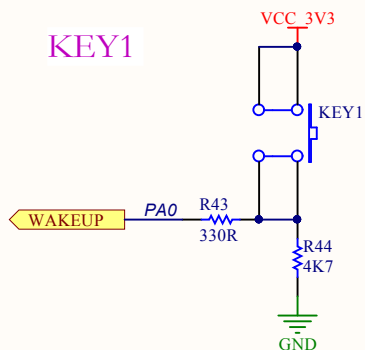
2

3

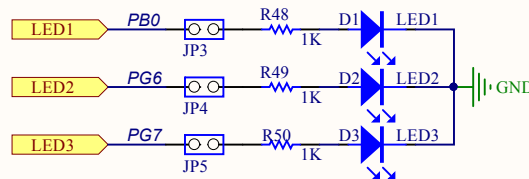
4

控制按键

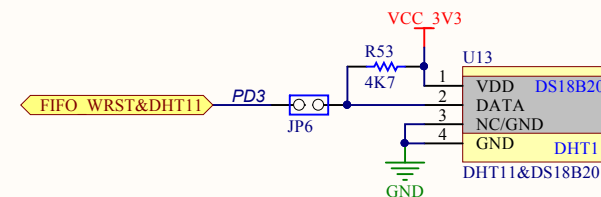
KEY1



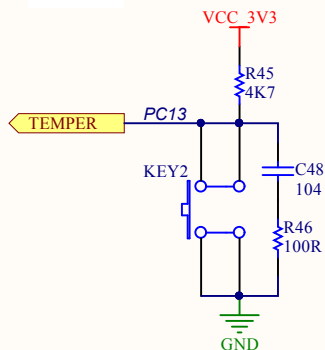
LED灯



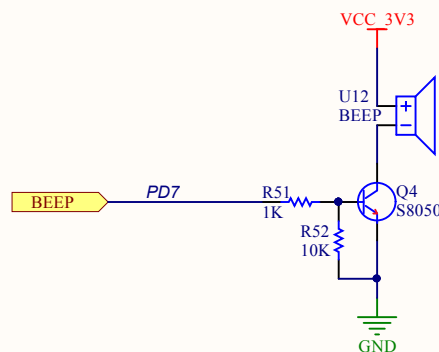
温湿度传感器



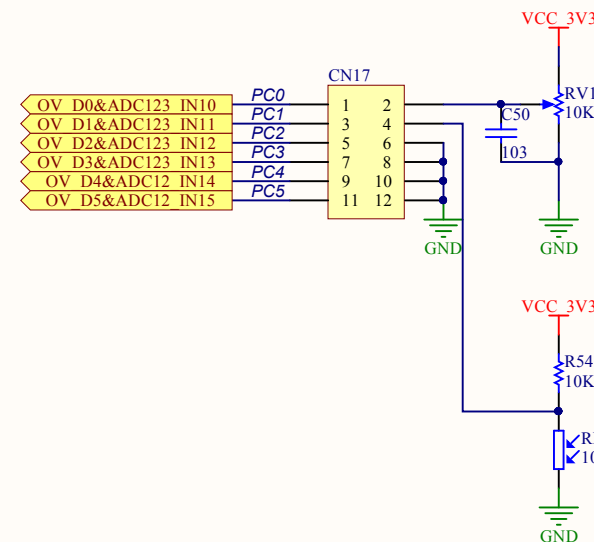
KEY2



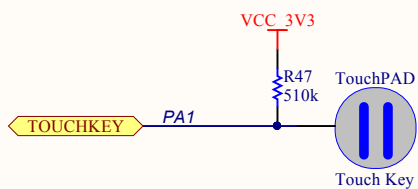
蜂鸣器



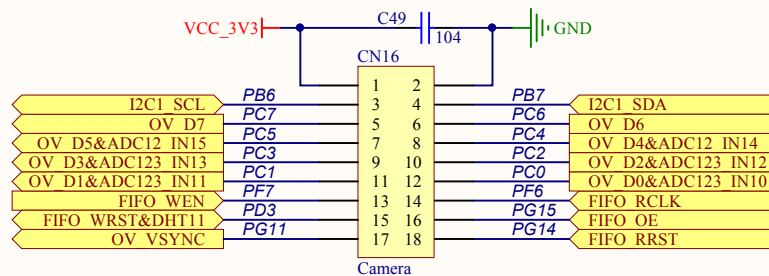
AD转换



电容式按键



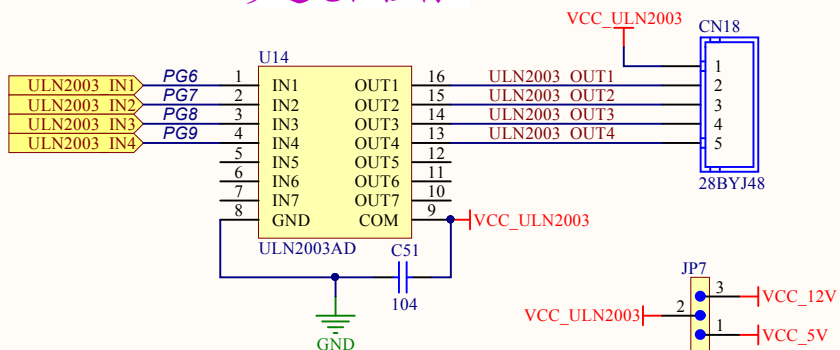
摄像头接口



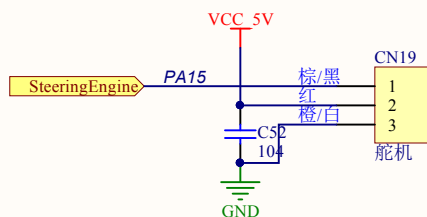
Title			AD&DA转换、摄像头及普通IO控制
Size	Number	Revision	
A4	NO.8	1.0	
Date:	2016/3/28	Sheet of 10	
File:	F:\光盘资料\8YS KEY&LED&BEEP	D:\8YS\DA-SchDoc	

各类电机控制

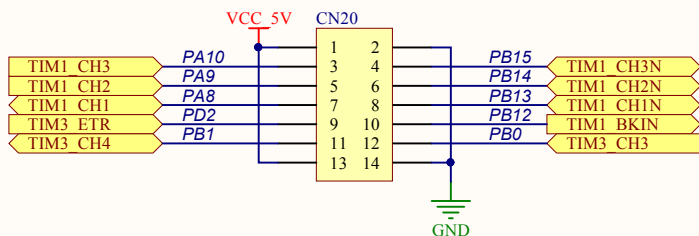
步进电机控制



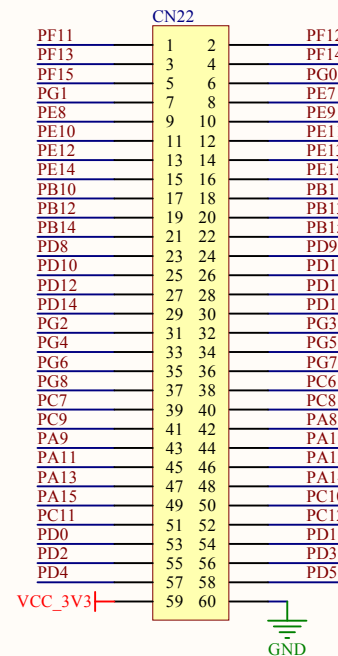
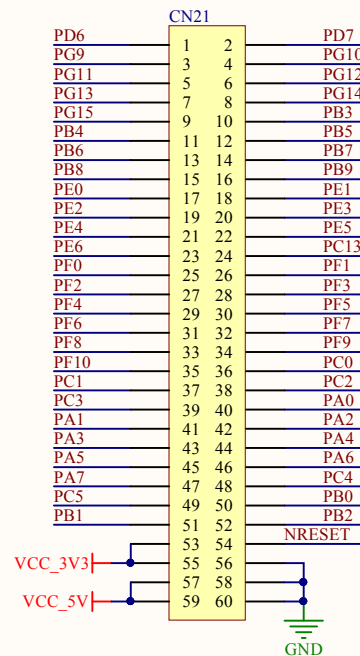
舵机控制



直流减速电机控制



引出GPIO接口



Title			www.ing10bbs.com
Size	Number	Revision	
A4	NO.9	1.0	
Date:	2016/3/28	Sheet of	10
File:	F:\光盘资料\9YS MOTOR.SchDoc	Drawn By:	

A

A

B

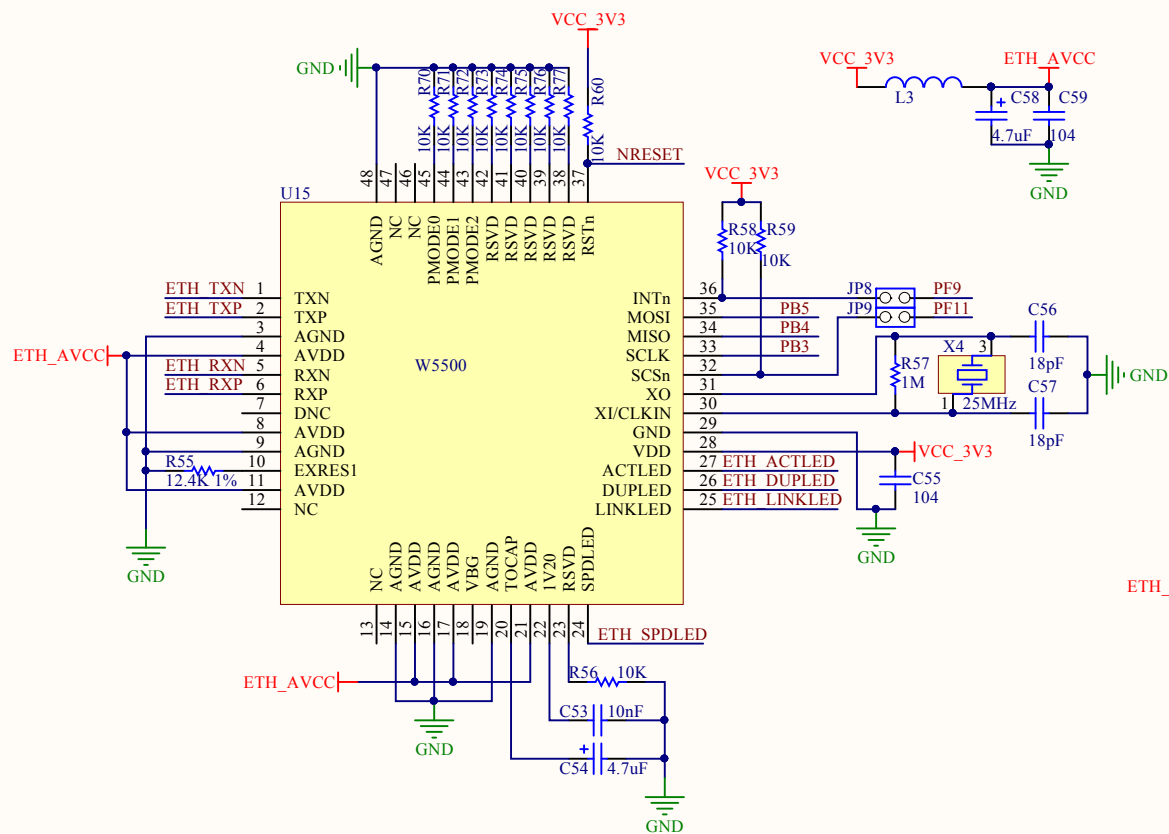
B

C

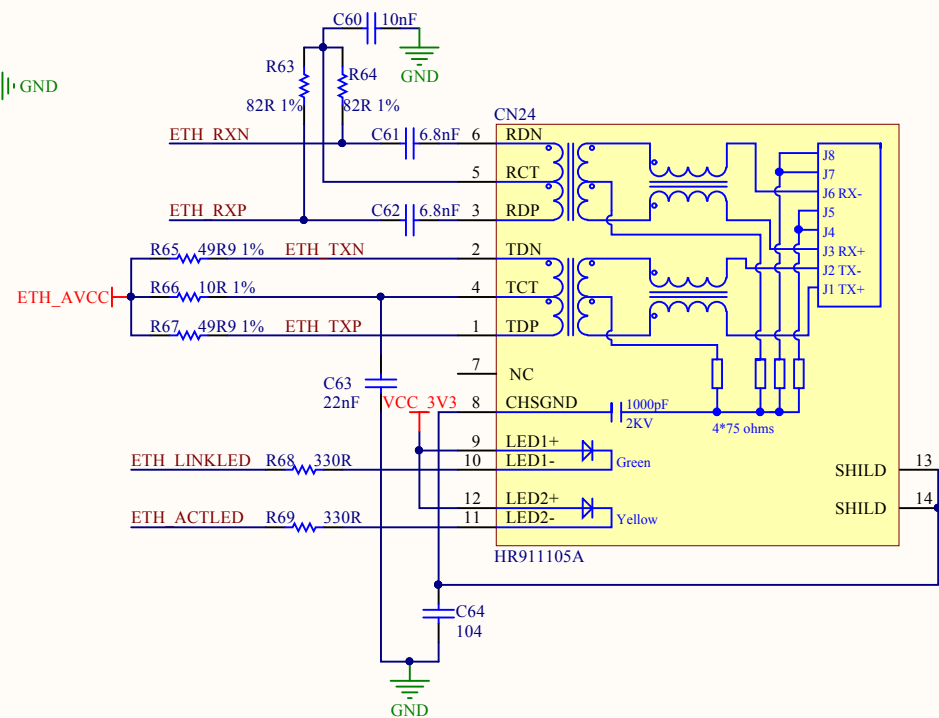
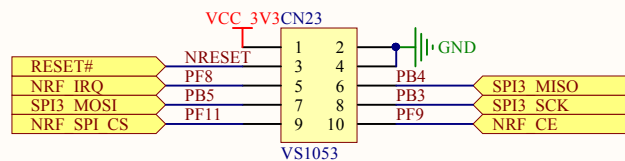
C

D

D



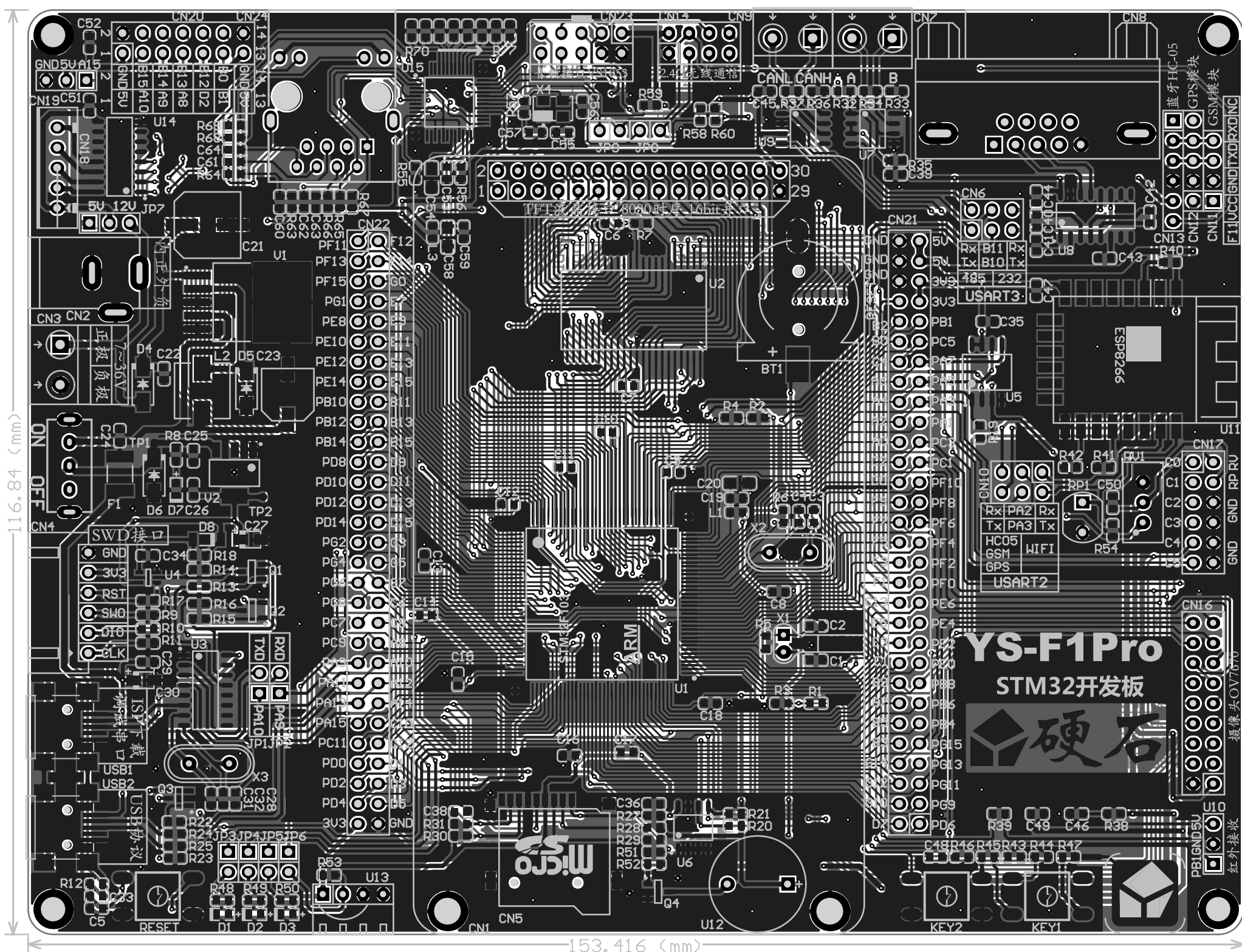
VS1053音频模块接口



Title		网络通信	
Size		www.ing10bbs.com	
A4	Number	NO.10	
Date:	2016/3/28	Sheet of	11
File:	F:\光盘资料\W5500.SchDoc	Drawn By:	

116.84 (mm)

153.416 (mm)



Bill of Materials

<Parameter Title not found>

Source Data From: YD_STM32F103_PrvPcb
Project: YD_STM32F103_PrvPcb
Variant: None

Creation Date: 2016/3/28 10:50:11
Print Date: 28-Mar-16 10:50:21 AM

Footprint	Comment	LibRef	Designator	Description	Quantity
BATTERY	BATTERY	BATTERY	B1	Battery	1
9603	Cap	Cap	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C22, C24, C25, C26, C28, C29, C31, C32, C33, C34, C35, C36, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C55, C56, C57, C59, C60, C61, C62, C63, C64	Capacitor	56
0805	Cap	Cap	C29	Capacitor	1
CAP-	Cap Pol	Cap Pol	C21	Polarized Capacitor (Radial)	1
IL406.4MM	Cap Pol	Cap Pol	C23	Polarized Capacitor (Radial)	1
CAP-	Cap Pol	Cap Pol	C27, C30	Polarized Capacitor (Radial)	2
IL406.5MM	Cap Pol	Cap Pol	C54, C58	Polarized Capacitor (Radial)	2
AVX_A_3216	Cap Pol	Cap Pol	CNT1	Header, 15-Pin, Dual row	1
0805	Cap Pol	Cap Pol	CNT2	Low Voltage Power Supply Connector	1
LCD_Module	Header 15X2	Header 15X2	Connector_2P	Connector_2P	3
30pin	POWER2.5	POWER2.5	CN3, CN7, CN9	Header, 6-Pin	1
CON_	POWER2.5	POWER2.5	CN4	MicroSD Card	1
DS21VS05	Connector_2P	Connector_2P	CN5	Header, 3-Pin, Dual row	2
J1	Header 6	Header 6	CN6, CN10	Header, 4-Pin	1
CON1XQ(5.08	Header 3X2	Header 3X2	CN8	Header, 5-Pin	1
mm)	SD Card	SD Card	CN9	Header, 4-Pin	1
W12.54-	Header 3X2	Header 3X2	CN11	Header, 5-Pin	1
9P_9P	MicroSD Card	MicroSD Card	CN12	Header, 5-Pin	1
SD_Card_TF	Header 3X2	Header 3X2	CN13	Header, 5-Pin	1
CON2XQ(2.54	Header 3X2	Header 3X2	CN14	Header, 5-Pin	1
mm)	Header 3X2	Header 3X2	CN15	Header, 5-Pin	1
CONJH-	DB9	DB9	CN16	Header, 5-Pin	1
9P(5.08)R-4	DB9	DB9	CN17	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN18	Header, 5-Pin	1
mm)	DB9	DB9	CN19	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN20	Header, 5-Pin	1
mm)	DB9	DB9	CN21, CN22	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN23	Header, 5-Pin	1
mm)	DB9	DB9	CN24	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN25	Header, 5-Pin	1
mm)	DB9	DB9	CN26	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN27	Header, 5-Pin	1
mm)	DB9	DB9	CN28	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN29	Header, 5-Pin	1
mm)	DB9	DB9	CN30	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN31	Header, 5-Pin	1
mm)	DB9	DB9	CN32	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN33	Header, 5-Pin	1
mm)	DB9	DB9	CN34	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN35	Header, 5-Pin	1
mm)	DB9	DB9	CN36	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN37	Header, 5-Pin	1
mm)	DB9	DB9	CN38	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN39	Header, 5-Pin	1
mm)	DB9	DB9	CN40	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN41	Header, 5-Pin	1
mm)	DB9	DB9	CN42	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN43	Header, 5-Pin	1
mm)	DB9	DB9	CN44	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN45	Header, 5-Pin	1
mm)	DB9	DB9	CN46	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN47	Header, 5-Pin	1
mm)	DB9	DB9	CN48	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN49	Header, 5-Pin	1
mm)	DB9	DB9	CN50	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN51	Header, 5-Pin	1
mm)	DB9	DB9	CN52	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN53	Header, 5-Pin	1
mm)	DB9	DB9	CN54	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN55	Header, 5-Pin	1
mm)	DB9	DB9	CN56	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN57	Header, 5-Pin	1
mm)	DB9	DB9	CN58	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN59	Header, 5-Pin	1
mm)	DB9	DB9	CN60	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN61	Header, 5-Pin	1
mm)	DB9	DB9	CN62	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN63	Header, 5-Pin	1
mm)	DB9	DB9	CN64	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN65	Header, 5-Pin	1
mm)	DB9	DB9	CN66	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN67	Header, 5-Pin	1
mm)	DB9	DB9	CN68	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN69	Header, 5-Pin	1
mm)	DB9	DB9	CN70	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN71	Header, 5-Pin	1
mm)	DB9	DB9	CN72	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN73	Header, 5-Pin	1
mm)	DB9	DB9	CN74	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN75	Header, 5-Pin	1
mm)	DB9	DB9	CN76	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN77	Header, 5-Pin	1
mm)	DB9	DB9	CN78	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN79	Header, 5-Pin	1
mm)	DB9	DB9	CN80	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN81	Header, 5-Pin	1
mm)	DB9	DB9	CN82	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN83	Header, 5-Pin	1
mm)	DB9	DB9	CN84	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN85	Header, 5-Pin	1
mm)	DB9	DB9	CN86	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN87	Header, 5-Pin	1
mm)	DB9	DB9	CN88	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN89	Header, 5-Pin	1
mm)	DB9	DB9	CN90	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN91	Header, 5-Pin	1
mm)	DB9	DB9	CN92	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN93	Header, 5-Pin	1
mm)	DB9	DB9	CN94	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN95	Header, 5-Pin	1
mm)	DB9	DB9	CN96	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN97	Header, 5-Pin	1
mm)	DB9	DB9	CN98	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN99	Header, 5-Pin	1
mm)	DB9	DB9	CN100	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN101	Header, 5-Pin	1
mm)	DB9	DB9	CN102	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN103	Header, 5-Pin	1
mm)	DB9	DB9	CN104	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN105	Header, 5-Pin	1
mm)	DB9	DB9	CN106	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN107	Header, 5-Pin	1
mm)	DB9	DB9	CN108	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN109	Header, 5-Pin	1
mm)	DB9	DB9	CN110	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN111	Header, 5-Pin	1
mm)	DB9	DB9	CN112	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN113	Header, 5-Pin	1
mm)	DB9	DB9	CN114	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN115	Header, 5-Pin	1
mm)	DB9	DB9	CN116	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN117	Header, 5-Pin	1
mm)	DB9	DB9	CN118	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN119	Header, 5-Pin	1
mm)	DB9	DB9	CN120	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN121	Header, 5-Pin	1
mm)	DB9	DB9	CN122	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN123	Header, 5-Pin	1
mm)	DB9	DB9	CN124	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN125	Header, 5-Pin	1
mm)	DB9	DB9	CN126	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN127	Header, 5-Pin	1
mm)	DB9	DB9	CN128	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN129	Header, 5-Pin	1
mm)	DB9	DB9	CN130	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN131	Header, 5-Pin	1
mm)	DB9	DB9	CN132	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN133	Header, 5-Pin	1
mm)	DB9	DB9	CN134	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN135	Header, 5-Pin	1
mm)	DB9	DB9	CN136	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN137	Header, 5-Pin	1
mm)	DB9	DB9	CN138	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN139	Header, 5-Pin	1
mm)	DB9	DB9	CN140	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN141	Header, 5-Pin	1
mm)	DB9	DB9	CN142	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN143	Header, 5-Pin	1
mm)	DB9	DB9	CN144	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN145	Header, 5-Pin	1
mm)	DB9	DB9	CN146	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN147	Header, 5-Pin	1
mm)	DB9	DB9	CN148	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN149	Header, 5-Pin	1
mm)	DB9	DB9	CN150	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN151	Header, 5-Pin	1
mm)	DB9	DB9	CN152	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN153	Header, 5-Pin	1
mm)	DB9	DB9	CN154	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN155	Header, 5-Pin	1
mm)	DB9	DB9	CN156	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN157	Header, 5-Pin	1
mm)	DB9	DB9	CN158	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN159	Header, 5-Pin	1
mm)	DB9	DB9	CN160	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN161	Header, 5-Pin	1
mm)	DB9	DB9	CN162	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN163	Header, 5-Pin	1
mm)	DB9	DB9	CN164	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN165	Header, 5-Pin	1
mm)	DB9	DB9	CN166	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN167	Header, 5-Pin	1
mm)	DB9	DB9	CN168	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN169	Header, 5-Pin	1
mm)	DB9	DB9	CN170	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN171	Header, 5-Pin	1
mm)	DB9	DB9	CN172	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN173	Header, 5-Pin	1
mm)	DB9	DB9	CN174	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN175	Header, 5-Pin	1
mm)	DB9	DB9	CN176	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN177	Header, 5-Pin	1
mm)	DB9	DB9	CN178	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN179	Header, 5-Pin	1
mm)	DB9	DB9	CN180	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN181	Header, 5-Pin	1
mm)	DB9	DB9	CN182	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN183	Header, 5-Pin	1
mm)	DB9	DB9	CN184	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN185	Header, 5-Pin	1
mm)	DB9	DB9	CN186	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN187	Header, 5-Pin	1
mm)	DB9	DB9	CN188	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN189	Header, 5-Pin	1
mm)	DB9	DB9	CN190	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN191	Header, 5-Pin	1
mm)	DB9	DB9	CN192	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN193	Header, 5-Pin	1
mm)	DB9	DB9	CN194	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN195	Header, 5-Pin	1
mm)	DB9	DB9	CN196	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN197	Header, 5-Pin	1
mm)	DB9	DB9	CN198	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN199	Header, 5-Pin	1
mm)	DB9	DB9	CN200	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN201	Header, 5-Pin	1
mm)	DB9	DB9	CN202	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN203	Header, 5-Pin	1
mm)	DB9	DB9	CN204	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN205	Header, 5-Pin	1
mm)	DB9	DB9	CN206	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN207	Header, 5-Pin	1
mm)	DB9	DB9	CN208	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN209	Header, 5-Pin	1
mm)	DB9	DB9	CN210	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN211	Header, 5-Pin	1
mm)	DB9	DB9	CN212	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN213	Header, 5-Pin	1
mm)	DB9	DB9	CN214	Header, 5-Pin	1
CON1XQ(2.54	DB9	DB9	CN215	Header, 5-Pin	1
mm)	DB9	DB9	CN216	Header, 5-Pin	1
CON1XQ(2.54					