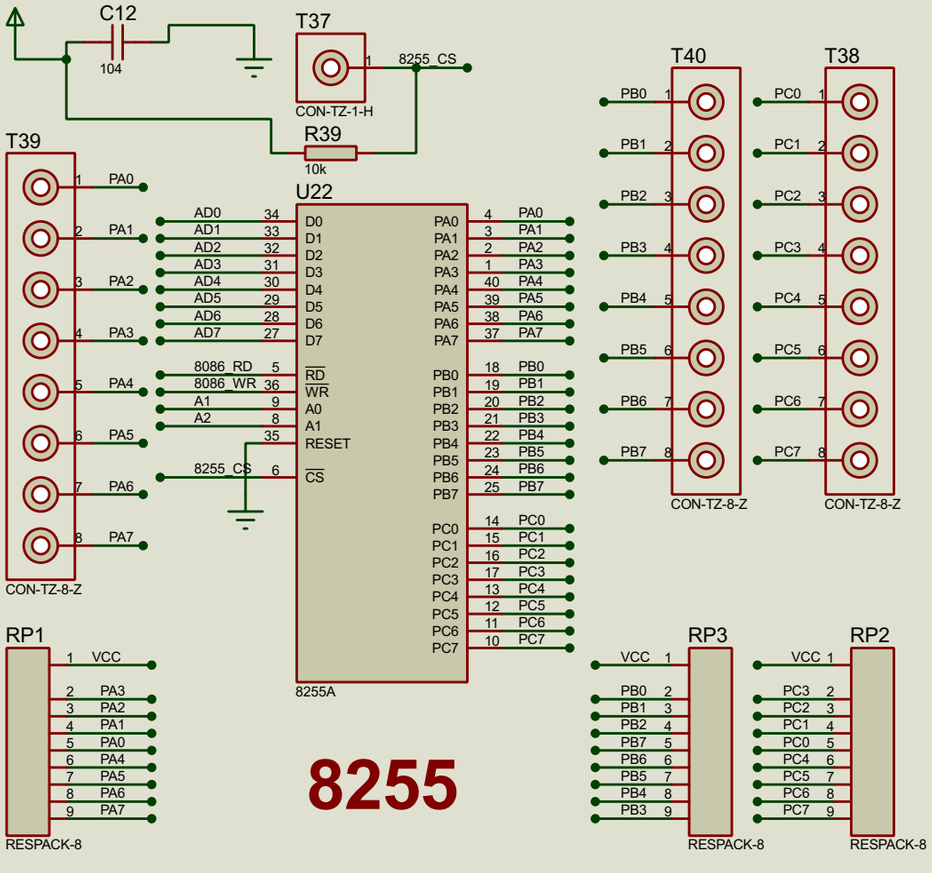
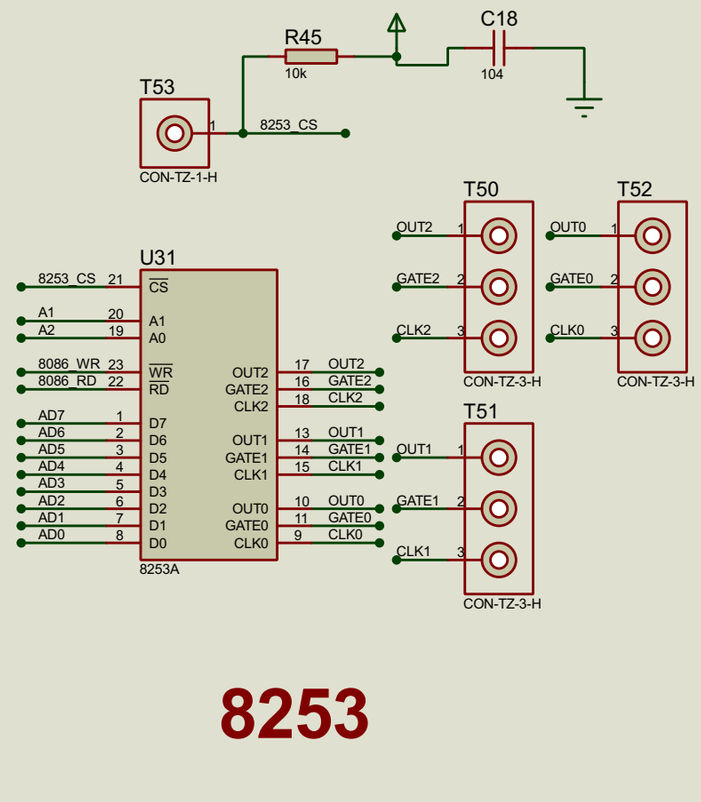
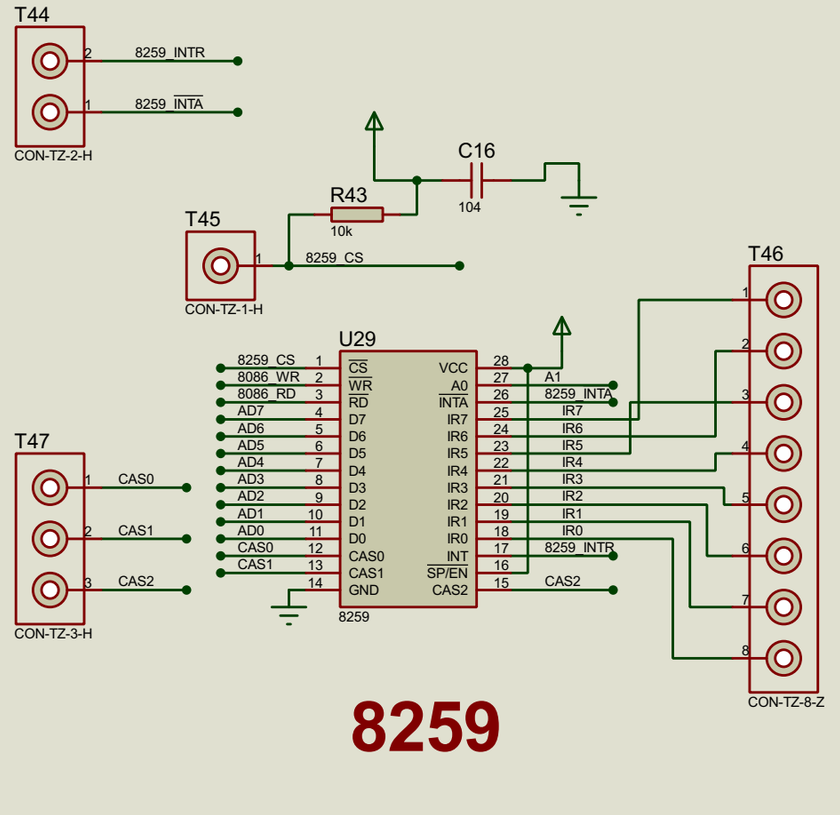
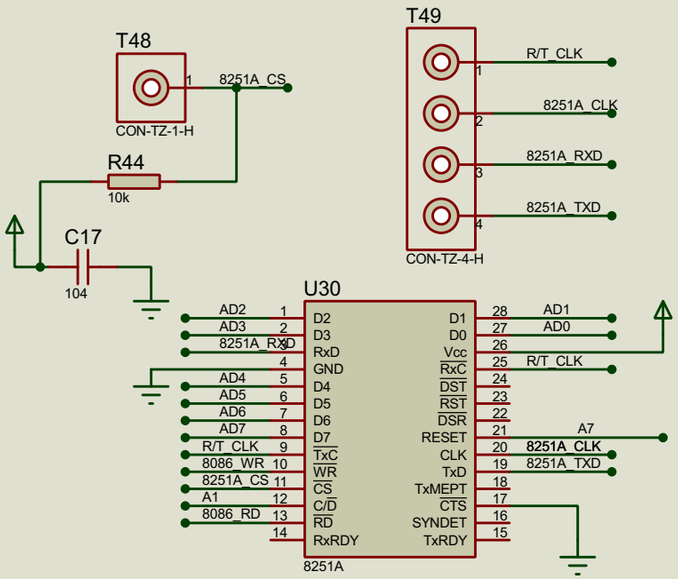
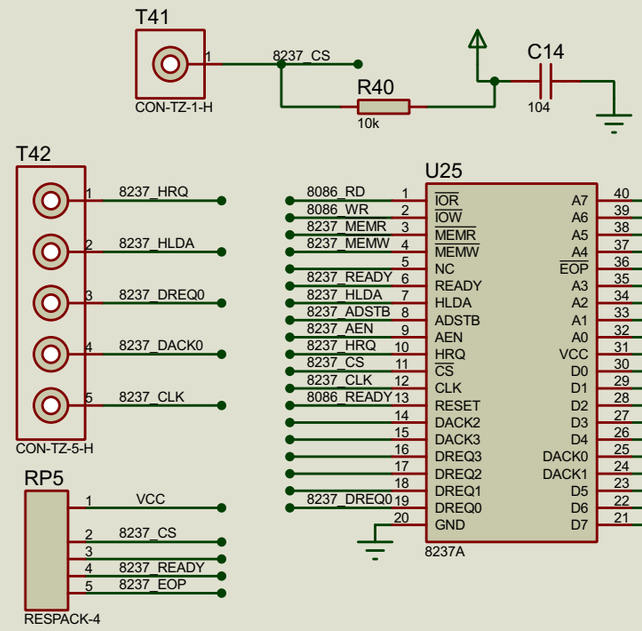

C12
104
T37
CON-TZ-1-H
8255_CS
R39
10k
T39
CON-TZ-8-Z
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
U22
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
8086_RD
8086_WR
A1
A2
8255_CS
D0
D1
D2
D3
D4
D5
D6
D7
RD
WR
A0
A1
RESET
CS
8255A
T40
T38
CON-TZ-8-Z
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
RP1
RP3
RP2
RESPACK-8
8255


T53
CON-TZ-1-H
8253_CS
R45
10k
C18
104
T50
T52
CON-TZ-3-H
OUT2
GATE2
CLK2
OUT0
GATE0
CLK0
U31
8253A
OUT1
GATE1
CLK1
T51
8253


T44
CON-TZ-2-H
8259_INTR
8259_INTA
T45
CON-TZ-1-H
8259_CS
R43
10k
C16
104
T46
CON-TZ-8-Z
U29
8259
A1
A0
INTA
IR7
IR6
IR5
IR4
IR3
IR2
IR1
IR0
INT
SP/EN
CAS2
CAS1
CAS0
T47
CON-TZ-3-H
8259

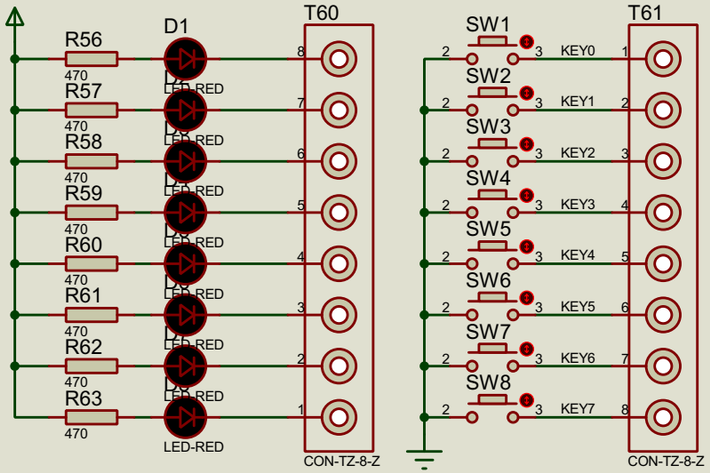

T48
CON-TZ-1-H
8251A_CS
R44
10k
C17
104
T49
CON-TZ-4-H
R/T_CLK
8251A_CLK
8251A_RXD
8251A_TXD
U30
8251A
AD1
AD0
A7
RxD
RxC
DST
RST
DSR
RESET
CLK
TxD
TxMEPT
CTS
SYNDET
TxRDY
RxRDY
C
D

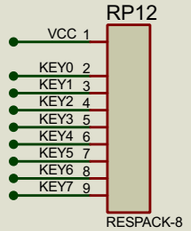

T41
CON-TZ-1-H
8237_CS
R40
10k
C14
104
T42
CON-TZ-5-H
8237_HRQ
8237_HLDA
8237_DREQ0
8237_DACK0
8237_CLK
RP5
RESPACK-4
8237_READY
8237_EOP
U25
8237A
IOR
IOW
MEMR
MEMW
NC
READY
HLDA
ADSTB
AEN
HRQ
CS
CLK
RESET
DACK2
DACK3
DREQ3
DREQ2
DREQ1
DREQ0
VCC
GND
A7
A6
A5
A4
EOP
A3
A2
A1
A0
8086_RD
8086_WR
8237_MEMR
8237_MEMW
8237_READY
8237_HLDA
8237_ADSTB
8237_AEN
8237_HRQ
8237_CS
8237_CLK
8086_READY
8237_DREQ0
8237_DACK0
RP4
RESPACK-4
GND
8237_HLDA
8237_DREQ0
8237_HRQ
8237_AEN
U27
74LS373
373_OE
8237_ADSTB
R41
10k
U23:B
74HC02
62C256_CS

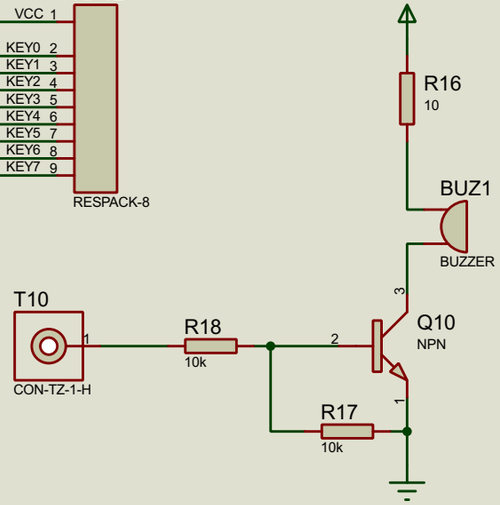
8251A

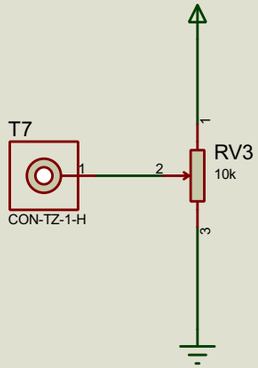
8237A

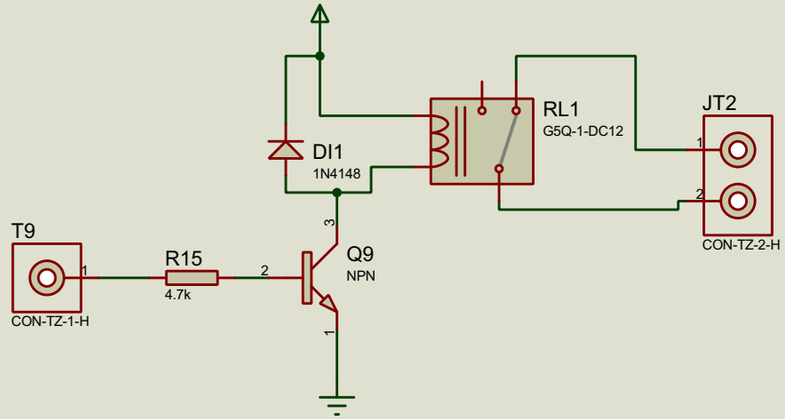
LCD1
LM032L
VSS VDD VEE RS RW E D0 D1 D2 D3 D4 D5 D6 D7 BLA BLK
RV2
50%
10k
AD7 AD6 AD5 AD4 AD3 AD2 AD1 AD0
A1
A2
1602_E
R25
10k
U16:A
74LS00
LCD1602_CS
1602_E
U16:D
74LS00
U16:B
8086_RD
8086_WR
74LS00
U16:C
74LS00
T26
LCD1602_CS
CON-TZ-1-H
LCD1602
T29
245_CS
CON-TZ-1-H
R36
10k
U17:C
7402
U17:A
7402
8086_RD
245_CS
U18
AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7
A0 A1 A2 A3 A4 A5 A6 A7
CE
AB/BA
74HC245
B0 B1 B2 B3 B4 B5 B6 B7
245_B0 245_B1 245_B2 245_B3 245_B4 245_B5 245_B6 245_B7
T30
245_B0 245_B1 245_B2 245_B3
CON-TZ-4-H
T32
245_B4 245_B5 245_B6 245_B7
CON-TZ-4-H
net=245_B0
245 输入
T31
373_CS
CON-TZ-1-H
R37
10k
U17:B
7402
8086_WR
373_CS
U19
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
OE
LE
74LS373
373_Q0 373_Q1 373_Q2 373_Q3 373_Q4 373_Q5 373_Q6 373_Q7
T33
373_Q0 373_Q1 373_Q2 373_Q3
CON-TZ-4-H
T34
373_Q4 373_Q5 373_Q6 373_Q7
CON-TZ-4-H
373 输出
-12V
DAC0832_OUT1
DAC0832_OUT2
LM324
U13:A
R26
20k
R28
20k
R27
10k
U13:B
R35
100
+12V
DAC0832_RFB
0--5V
R32
100
R33
10k
R31
36k
R30
20k
U13:C
R34
100
-5-+5V
-8-+8V
T27
DAC0832_CS
CON-TZ-1-H
R29
10k
T28
0--5V
-5-+5V
-8-+8V
CON-TZ-3-H
U14
CS WR1 GND DI3 DI2 DI1 DI0 VREF RFB GND
VCC ILE(BY1/BY2) WR2 XFER DI4 DI5 DI6 DI7 IOUT2 IOUT1
DAC0832
8086_WR
AD3 AD2 AD1 AD0
AD4 AD5 AD6 AD7
DAC0832_RFB
DAC0832_OUT2
DAC0832_OUT1
C11
104
DAC0832
T36
ADC0809_IN0
ADC0809_IN1
ADC0809_IN2
ADC0809_EOC
ADC0809_CLK
CON-TZ-5-H
T35
ADC0809_CS
CON-TZ-1-H
R38
10k
C13
104
U21
IN0 IN1 IN2 IN3 IN4 IN5 IN6 IN7
START EOC OUTPUT ENABLE CLOCK VCC VREF(+) VREF(-)
ADD A ADD B ADD C ALE
2 -1MSB 2 -2 2 -3 2 -4 2 -5 2 -6 2 -7 2 -8LSB GND
A1 A2 A3 0809_ALE
AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7
ADC0809
U20:A
7402
8086_WR
0809_ALE
ADC0809_EOC
ADC0809_CLK
ADC0809_CS
U20:B
7402
8086_RD
ADC0809
C15
104
T43
62C256_CS
CON-TZ-1-H
R42
10k
U28
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14
I/O0 I/O1 I/O2 I/O3 I/O4 I/O5 I/O6 I/O7
CS WE OE
VCC GND
AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7
62C256_CS
62C256
373_OE
U23:A
74HC02
8237_AEN
U26:A
74HC125
8086_WR
8237_MEMW
U24:A
74HC126
U26:B
74HC125
8086_RD
U23:C
74HC02
U23:D
74HC02
8237_HLDA
62C256

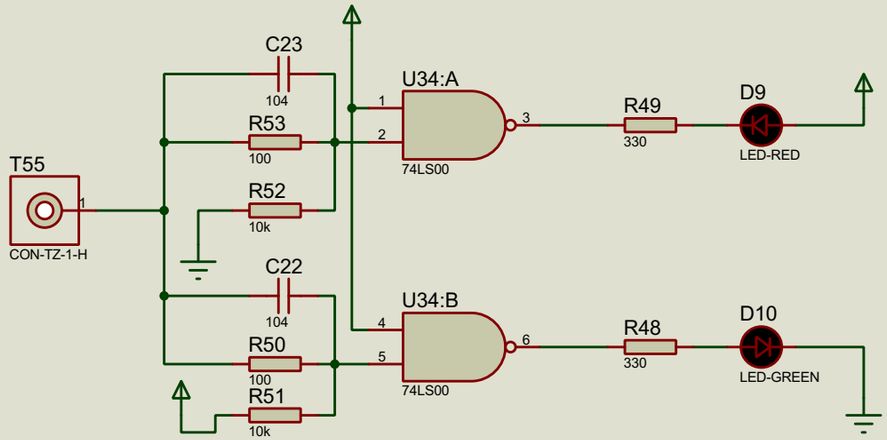




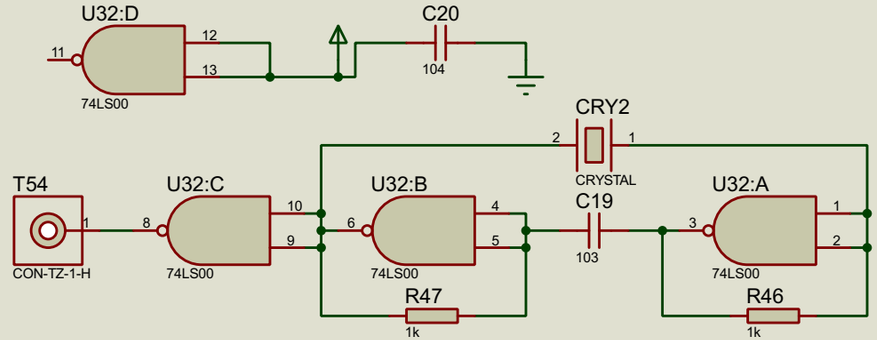




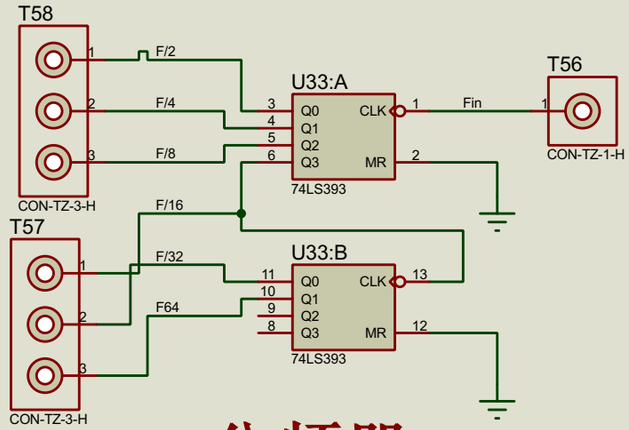




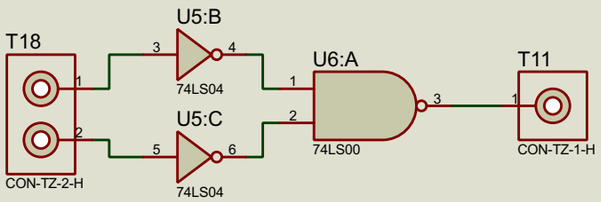
逻辑笔



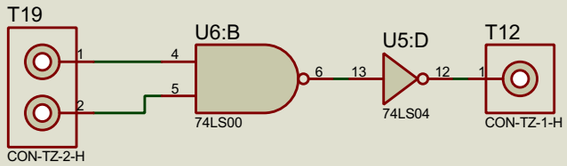
4M信号源



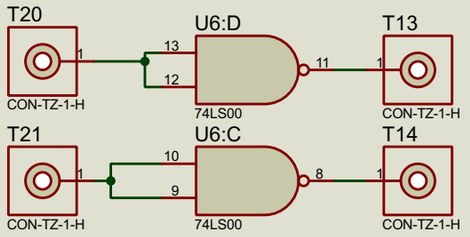
分频器



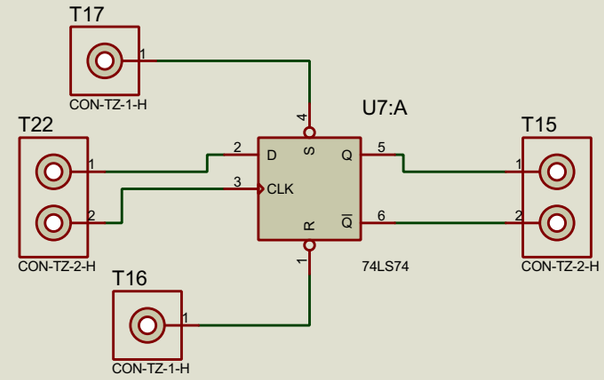
或门



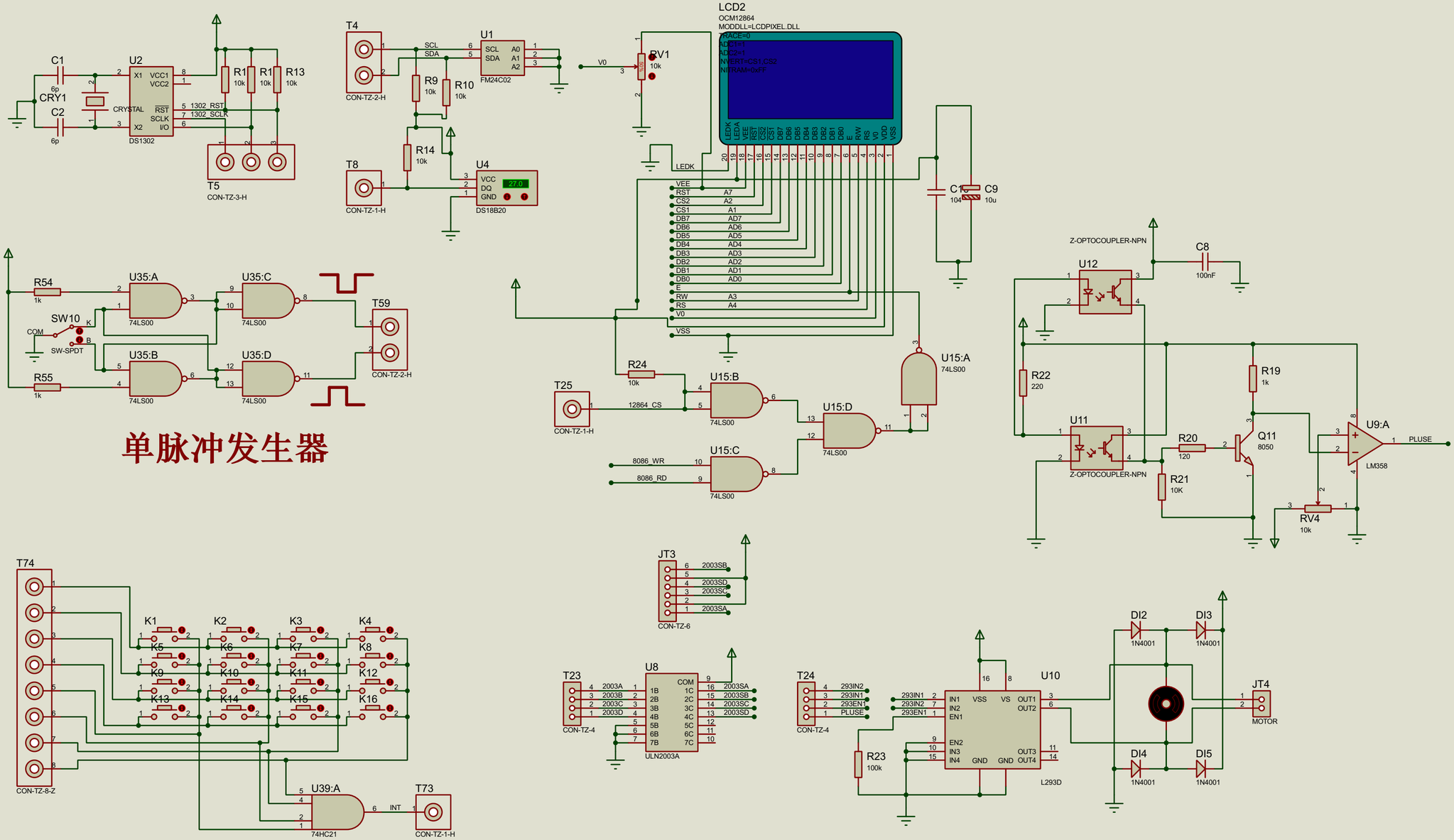
与门



非门



单脉冲发生器


C1
6p
CRY1
C2
6p
U2
X1
VCC1
VCC2
CRYSTAL
RST
SCLK
I/O
X2
DS1302
1302_RST
1302_SCLK
R1
10k
R1
10k
R13
10k
T5
CON-TZ-3-H
T4
CON-TZ-2-H
SCL
SDA
U1
SCL
SDA
A0
A1
A2
FM24C02
R9
10k
R10
10k
R14
10k
T8
CON-TZ-1-H
U4
VCC
DQ
GND
27.0
DS18B20
V0
RV1
10k
LCD2
OCM12864
MODDLL=LCDPIXEL.DLL
TRACE=0
ADDR=7
ADDR2=1
INVERT=CS1,CS2
NVRAM=0xFF
LEDK
LEDA
VEE
RST
CS2
CS1
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
RW
RS
V0
VDD
VSS
C11
104
C9
10u
R54
1k
SW10
COM
K
B
SW-SPDT
R55
1k
U35:A
U35:B
U35:C
U35:D
74LS00
T59
CON-TZ-2-H
T25
CON-TZ-1-H
R24
10k
12864_CS
U15:B
U15:C
U15:D
U15:A
74LS00
8086_WR
8086_RD
Z-OPTOCOUPLER-NPN
U12
C8
100nF
R22
220
U11
R19
1k
R20
120
Q11
8050
R21
10K
U9:A
LM358
PLUSE
RV4
10k
T74
CON-TZ-8-Z
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
K13
K14
K15
K16
U39:A
74HC21
T73
CON-TZ-1-H
INT
JT3
CON-TZ-6
2003SB
2003SD
2003SC
2003SA
T23
CON-TZ-4
2003A
2003B
2003C
2003D
U8
ULN2003A
2003SA
2003SB
2003SC
2003SD
T24
CON-TZ-4
293IN2
293IN1
293EN1
PLUSE
R23
100k
U10
L293D
IN1
IN2
EN1
EN2
IN3
IN4
VSS
VS
GND
OUT1
OUT2
OUT3
OUT4
DI2
DI3
DI4
DI5
1N4001
JT4
MOTOR

SMG1

SMG2

ABCDEFG DP 1234

8*LED_A
8*LED_B
8*LED_C
8*LED_D
8*LED_E
8*LED_F
8*LED_G
8*LED_DP

Q1 NPN
Q2 NPN
Q3 NPN
Q4 NPN
Q5 NPN
Q6 NPN
Q7 NPN
Q8 NPN

R1 1k
R2 1k
R3 1k
R4 1k
R5 1k
R6 1k
R7 1k
R8 1k

8*LED_7
8*LED_6
8*LED_5
8*LED_4
8*LED_3
8*LED_2
8*LED_1
8*LED_0

T1

T2
CON-TZ-4-H

T3
CON-TZ-4-H

CON-TZ-8-Z

C3 104
C4 104
C5 104
C6 104
C7 104

U3
C2- C2+
VS-
VS+
R2IN R2OUT
T2OUT T2IN
R1IN R1OUT
T1OUT T1IN
C1- C1+
MAX232

JT1
CONN-D9F

ORXD
OTXD
RXD
TXD

T6
CON-TZ-2-H

J5
CONN-H2

JT5
CON-TZ-4-H

IN5V
+12V
GND
-12V

SW9
SW-SPDT

T62
CON-TZ-4-H

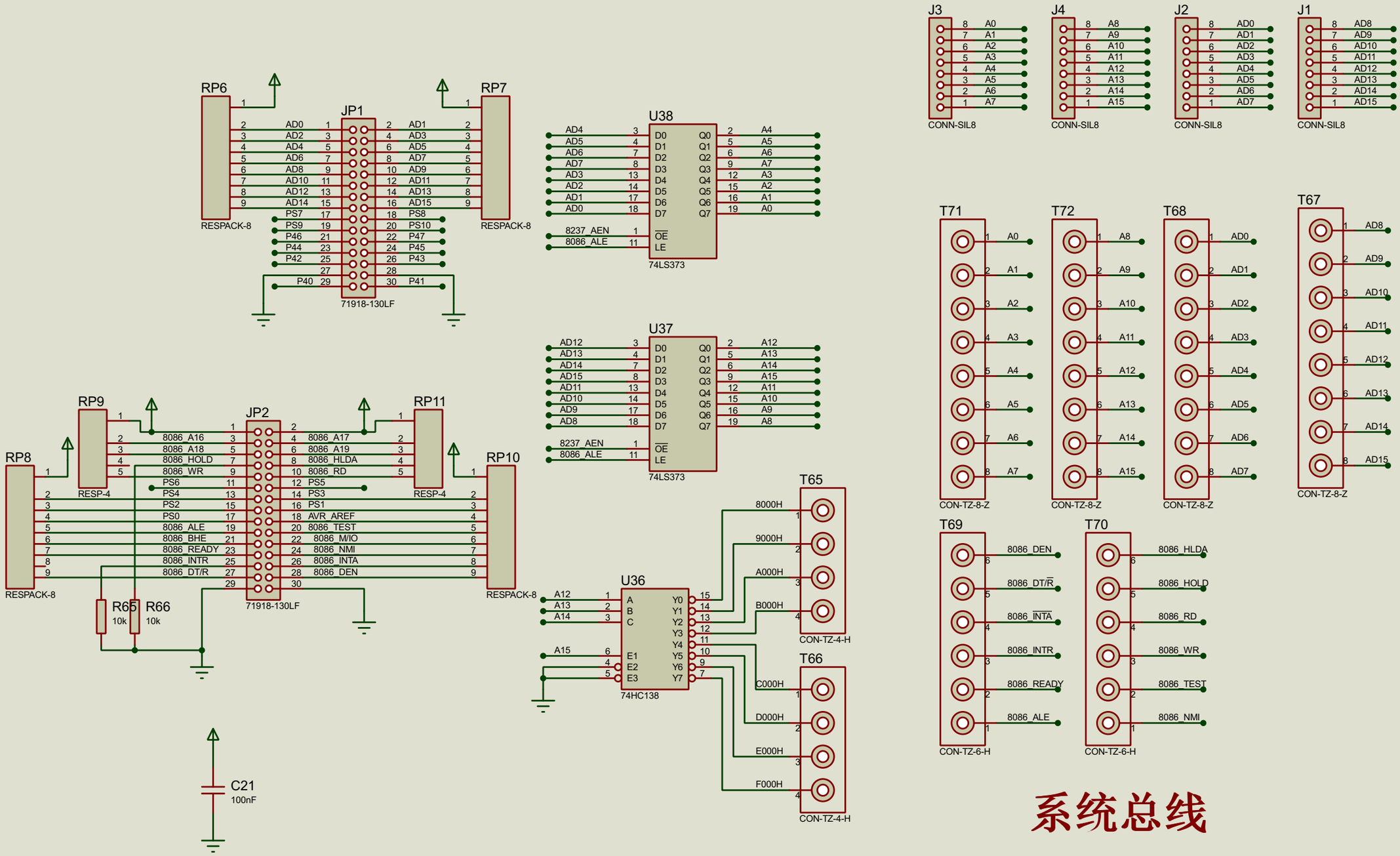
T63
CON-TZ-2-H

T64
CON-TZ-2-H

R64 1k

C25 220u
C24 104

D11
LED-RED


RP6
RP7
JP1
RESPACK-8
71918-130LF
U38
74LS373
U37
74LS373
RP9
RP11
JP2
RP8
RP10
RESP-4
RESPACK-8
71918-130LF
R65
10k
R66
10k
C21
100nF
U36
74HC138
T65
T66
CON-TZ-4-H
8000H
9000H
A000H
B000H
C000H
D000H
E000H
F000H
J3
J4
J2
J1
CONN-SIL8
T71
T72
T68
T67
CON-TZ-8-Z
T69
T70
CON-TZ-6-H
系统总线