

主控模块

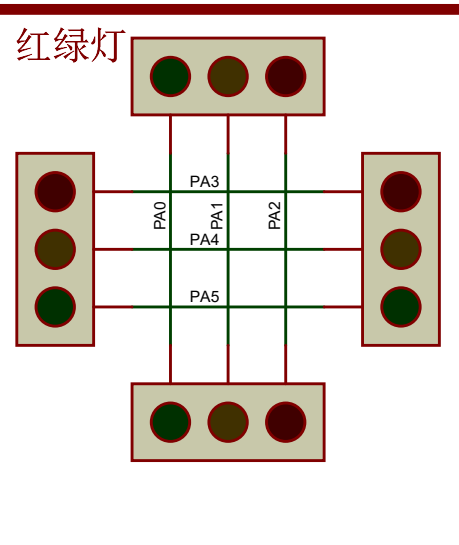
The diagram illustrates the connection of the 8086 microprocessor (U1) to the 8255 PPI (U2) in the Main Control Module (主控模块).

8086 Microprocessor (U1) Connections:

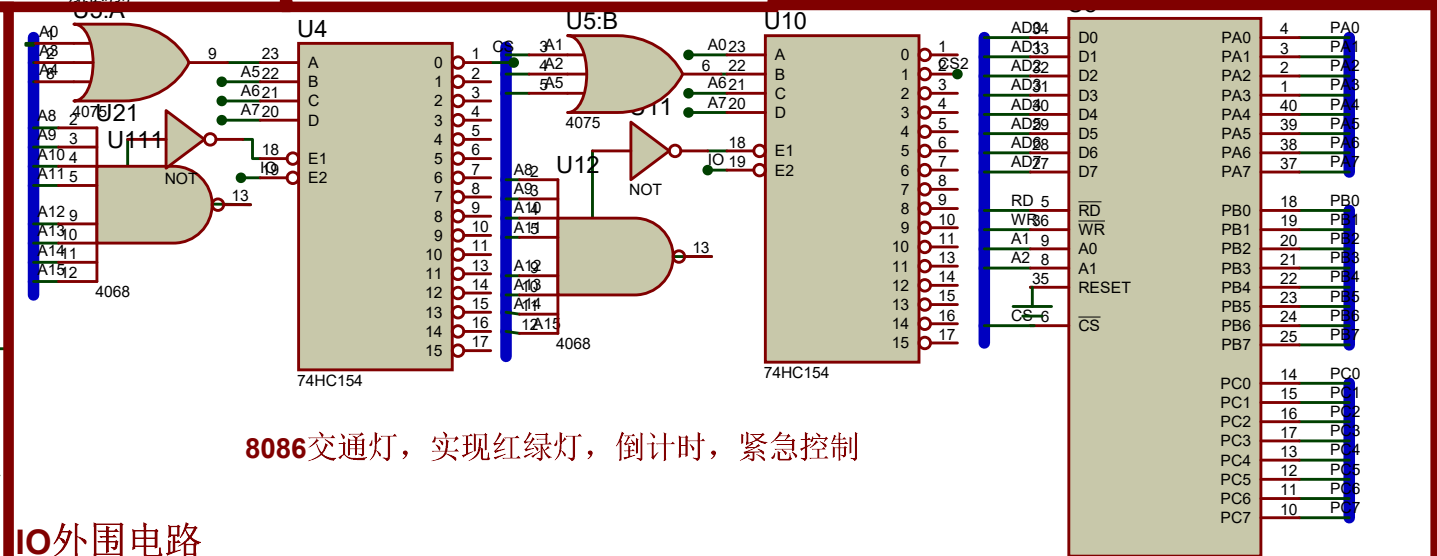
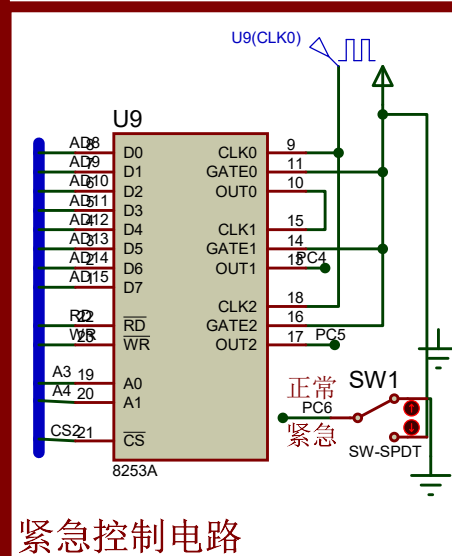
- Address Bus:** AD[0..15] is connected to the 8255 A[0..15] input. AD[16..19] is connected to the 8255 A[16..19] input.
- Control Signals:**
 - RESET (pin 22) is connected to the 8255 \overline{RD} (pin 29).
 - READY (pin 23) is connected to the 8255 \overline{WR} (pin 32).
 - INTA/QS1 (pin 24) is connected to the 8255 $\overline{IO/\overline{M}}$ (pin 28).
 - INTR (pin 18) is connected to the 8255 \overline{INTR} (pin 34).
 - HOLD/GT1 (pin 31) is connected to the 8255 \overline{HOLD} (pin 30).
 - HLDA/GT0 (pin 23) is connected to the 8255 \overline{HLDA} (pin 26).
 - TEST (pin 17) is connected to the 8255 \overline{TEST} (pin 27).
 - NMI (pin 33) is connected to the 8255 \overline{NMI} (pin 31).
 - MN/MX (pin 19) is connected to the 8255 $\overline{MN/MX}$ (pin 25).
 - CLK (pin 19) is connected to the 8255 \overline{CLK} (pin 25).

8255 PPI (U2) Connections:

- Address Bus:** AD[0..15] is connected to the 8255 A[0..15] input. AD[16..19] is connected to the 8255 A[16..19] input.
- Control Signals:**
 - \overline{RD} (pin 29) is connected to the 8255 \overline{RD} (pin 29).
 - \overline{WR} (pin 32) is connected to the 8255 \overline{WR} (pin 32).
 - $\overline{IO/\overline{M}}$ (pin 28) is connected to the 8255 $\overline{IO/\overline{M}}$ (pin 28).
 - \overline{INTR} (pin 34) is connected to the 8255 \overline{INTR} (pin 34).
 - \overline{HOLD} (pin 30) is connected to the 8255 \overline{HOLD} (pin 30).
 - \overline{HLDA} (pin 26) is connected to the 8255 \overline{HLDA} (pin 26).
 - \overline{TEST} (pin 27) is connected to the 8255 \overline{TEST} (pin 27).
 - \overline{NMI} (pin 31) is connected to the 8255 \overline{NMI} (pin 31).
 - $\overline{MN/MX}$ (pin 25) is connected to the 8255 $\overline{MN/MX}$ (pin 25).
 - \overline{CLK} (pin 25) is connected to the 8255 \overline{CLK} (pin 25).



数码管显示



8086交通灯，实现红绿灯，倒计时，紧急控制