PROJECT:8086 SYSTEM BOARD

The board contains following components:

1. 32 Kbyte RAM

2. 32 Kbyte EEPROM

3. Two Programmable Parallel Port

4. Two Programmable Timer

5. One Serial Port Controller

6. One Programmable Priority Interrupt Controller

All the parts Number used in this project:

1. Intel 8086(processor)
2. 8284 (clock generator)
3. 74S373(octal latch)
4. 8286(transceiver)
5. 7404(not gate)
6. 4072,4075,7432(or gate)
7. 74154(decoder)
8. 74LS251(mux)
9. 74LS164(parallel out serial shift register)
10. 74LS 10(NAND gate)
11. 2864(EEPROM)
12. CY7C006(RAM)
13. 8255(programmable port)
14. 8254(Programmable Timer)
15. 8251(Serial port)
16. 1488,1489(Voltage level shifter)
17. 74LS393(counter)
18. 8259A (Interrupt controller)

Memory mapping of the system board:

RAM 00000-07FFF

EEPROM F8000-FFFFF

8255\_1 10000-10003

8255\_2 20000-20003

8254\_1 30000-30003

8254\_2 40000-40003

8259 50000-50001

8251 60000 and 60002