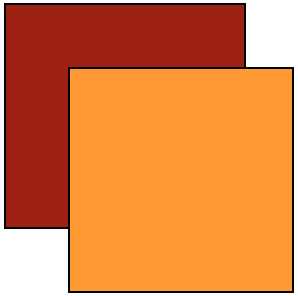
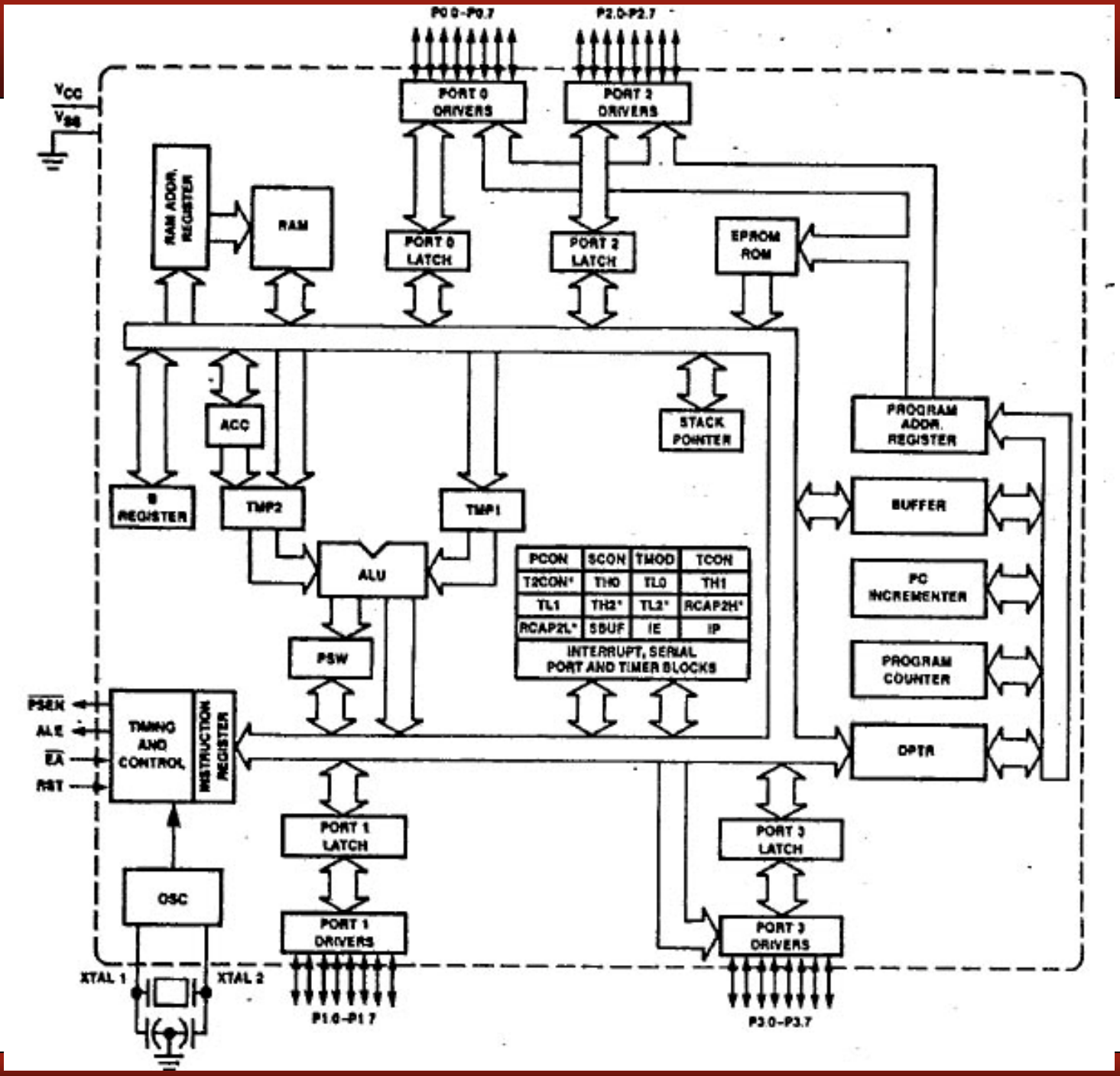
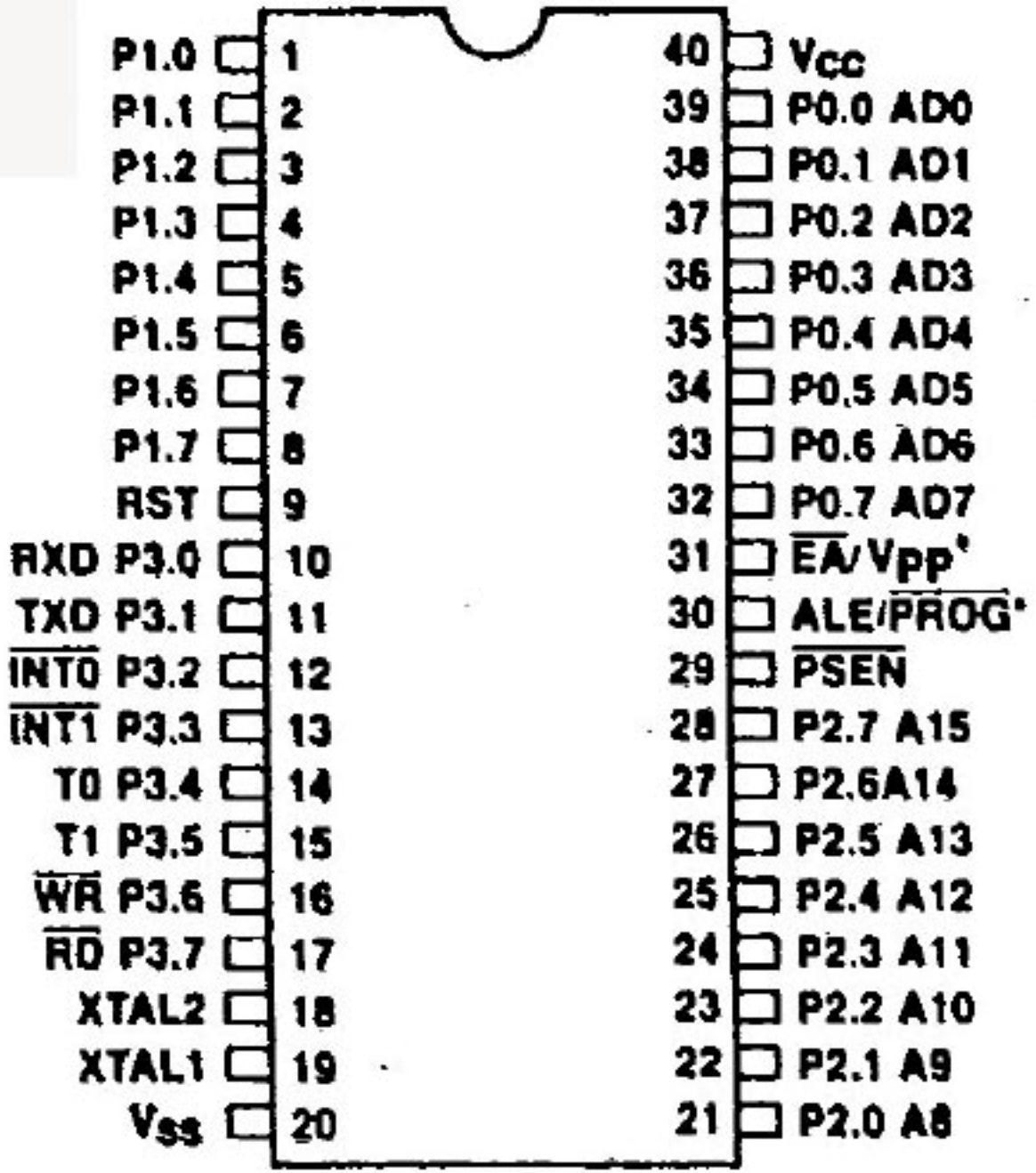


8051 – 8 bit microcontroller

SSN

8051


P0.0-P0.7
P2.0-P2.7
VCC
VSS
PORT 0 DRIVERS
PORT 2 DRIVERS
RAM ADDR. REGISTER
RAM
PORT 0 LATCH
PORT 2 LATCH
EPROM ROM
ACC
STACK POINTER
PROGRAM ADDR. REGISTER
B REGISTER
TMP2
TMP1
BUFFER
ALU
PCON SCON TMOD TCON
T2CON* TH0 TL0 TH1
TL1 TH2* TL2* RCAP2H*
RCAP2L* SBUF IE IP
INTERRUPT, SERIAL PORT AND TIMER BLOCKS
PC INCREMENTER
PSW
PROGRAM COUNTER
PSEN
ALE
EA
RST
TIMING AND CONTROL
INSTRUCTION REGISTER
DPTR
PORT 1 LATCH
PORT 3 LATCH
OSC
PORT 1 DRIVERS
PORT 3 DRIVERS
XTAL 1
XTAL 2
P1.0-P1.7
P3.0-P3.7

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