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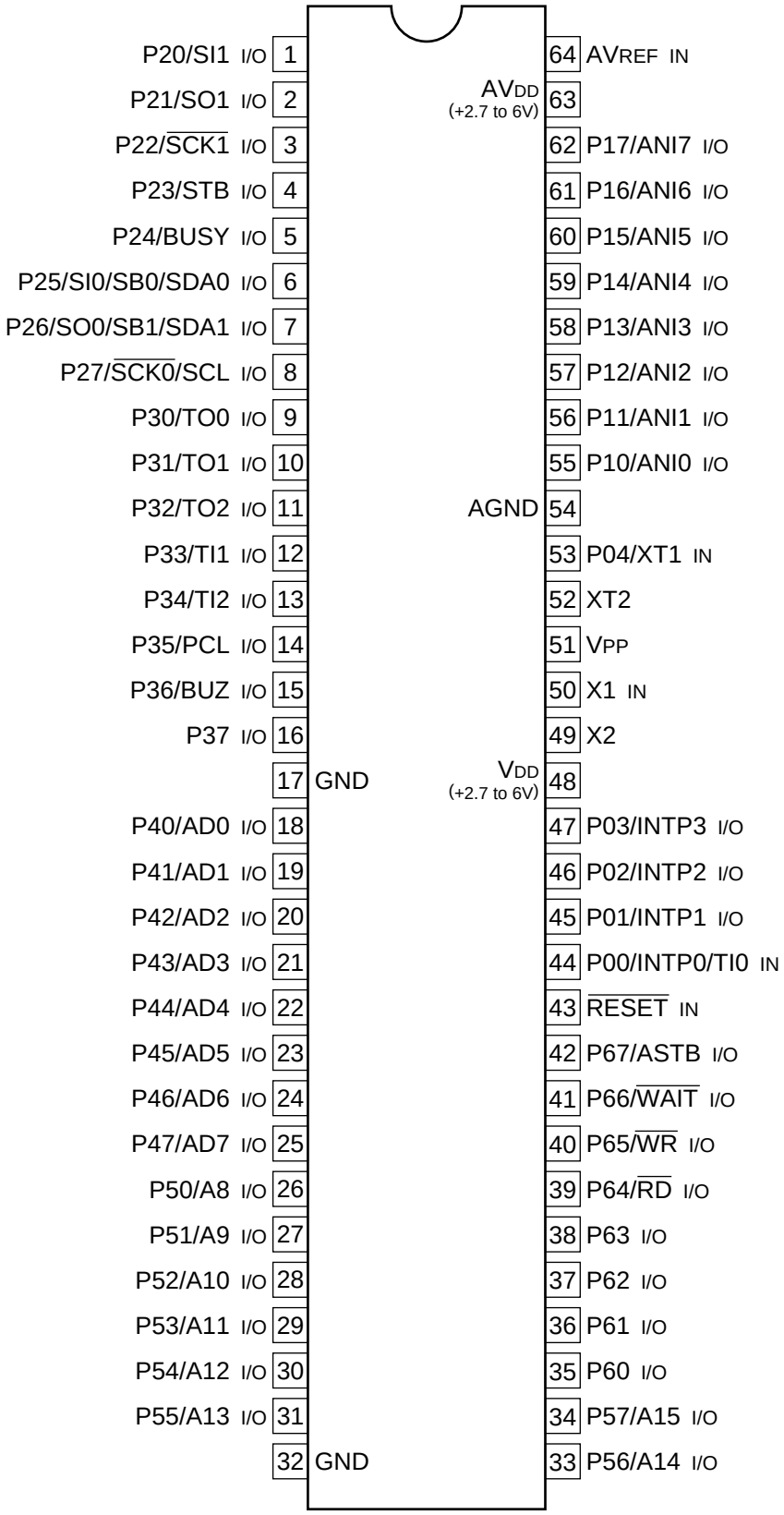
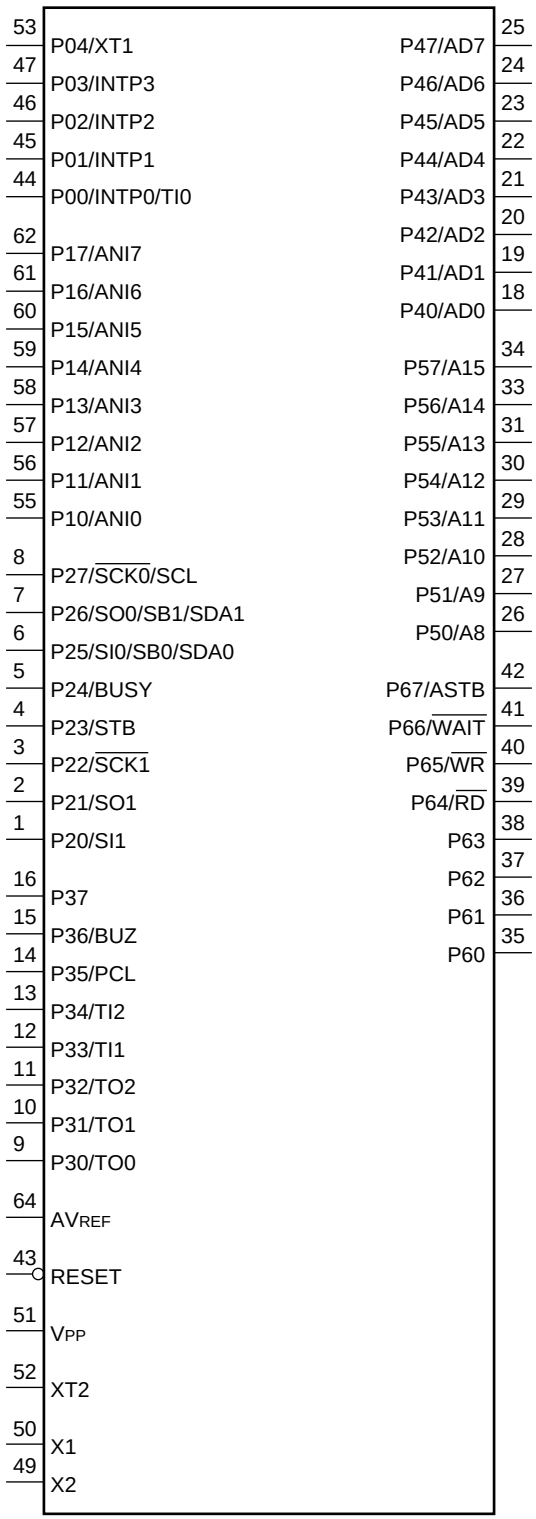
IL22

C-MOS 8-BIT SINGLE CHIP MICROCOMPUTER

-TOP VIEW-





INPUT

ANI0-ANI7	;	ANALOG
AVREF	;	ANALOG REFERENCE VOLTAGE
BUSY	;	BUSY
INTP0-INTP3	;	EXTERNAL INTERRUPT
P00, P04	;	PORT0
$\overline{\text{RESET}}$	;	RESET
SI0, SI1	;	SERIAL
TI0-TI2	;	TIMER
$\overline{\text{WAIT}}$	;	WAIT
X1	;	CRYSTAL (MAIN SYSTEM CLOCK)
XT1	;	CRYSTAL (SUBSYSTEM CLOCK)

OUTPUT

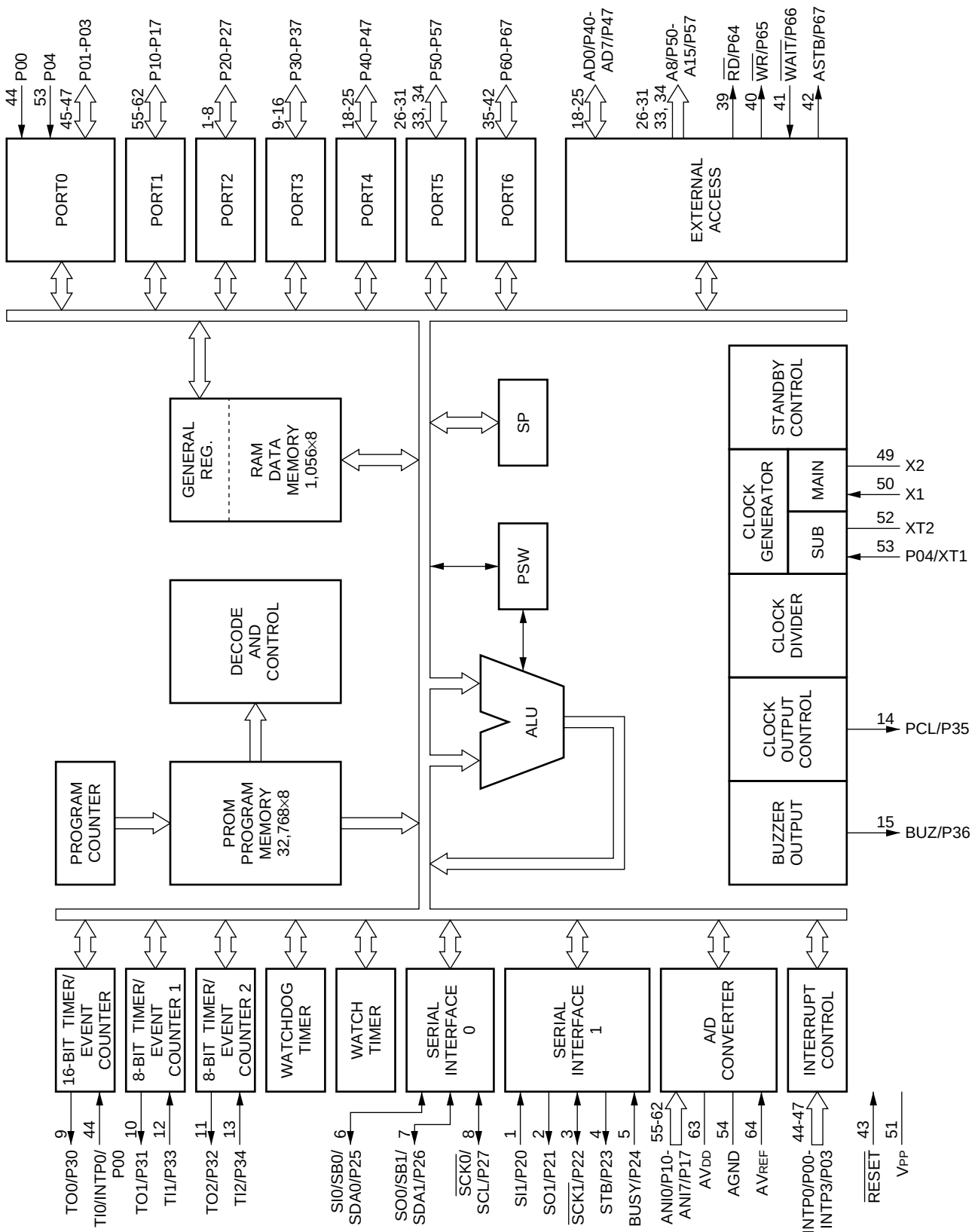
A8-A15	;	ADDRESS
ASTB	;	ADDRESS STROBE
BUZ	;	BUZZER CLOCK
PCL	;	PROGRAMMABLE CLOCK
$\overline{\text{RD}}$	;	READ STROBE
SO0, SO1	;	SERIAL
STB	;	STROBE
TO0-TO2	;	TIMER
$\overline{\text{WR}}$	;	WRITE STROBE

INPUT/OUTPUT

AD0-AD7	;	ADDRESS/DATA BUS
P01-P03	;	PORT0
P10-P17	;	PORT1
P20-P27	;	PORT2
P30-P37	;	PORT3
P40-P47	;	PORT4
P50-P57	;	PORT5
P60-P67	;	PORT6
SB0, SB1	;	SERIAL BUS
$\overline{\text{SCK0}}$, $\overline{\text{SCK1}}$	;	SERIAL CLOCK
SCL	;	SERIAL CLOCK
SDA0, SDA1	;	SERIAL DATA

OTHER

AGND	;	ANALOG GROUND
AVDD	;	ANALOG POWER SUPPLY
VPP	;	PROGRAMMING POWER SUPPLY
X2	;	CRYSTAL (MAIN SYSTEM CLOCK)
XT2	;	CRYSTAL (SUBSYSTEM CLOCK)


44 P00
53 P04
45-47 P01-P03
PORT0
55-62 P10-P17
PORT1
1-8 P20-P27
PORT2
9-16 P30-P37
PORT3
18-25 P40-P47
PORT4
26-31 33, 34 P50-P57
PORT5
35-42 P60-P67
PORT6
18-25 AD0/P40-AD7/P47
26-31 33, 34 A8/P50-A15/P57
39 RD/P64
40 WR/P65
41 WAIT/P66
42 ASTB/P67
EXTERNAL ACCESS
GENERAL REG.
RAM DATA MEMORY 1,056×8
SP
PSW
DECODE AND CONTROL
ALU
PROGRAM COUNTER
PROM PROGRAM MEMORY 32,768×8
STANDBY CONTROL
CLOCK GENERATOR
MAIN
SUB
49 X2
50 X1
52 XT2
53 P04/XT1
CLOCK DIVIDER
CLOCK OUTPUT CONTROL
14 PCL/P35
BUZZER OUTPUT
15 BUZ/P36
16-BIT TIMER/ EVENT COUNTER
8-BIT TIMER/ EVENT COUNTER 1
8-BIT TIMER/ EVENT COUNTER 2
WATCHDOG TIMER
WATCH TIMER
SERIAL INTERFACE 0
SERIAL INTERFACE 1
A/D CONVERTER
INTERRUPT CONTROL
9 TO0/P30
44 TI0/INTP0/P00
10 TO1/P31
12 TI1/P33
11 TO2/P32
13 TI2/P34
6 SI0/SB0/SDA0/P25
7 SO0/SB1/SDA1/P26
8 SCK0/SCL/P27
1 SI1/P20
2 SO1/P21
3 SCK1/P22
4 STB/P23
5 BUSY/P24
55-62 ANI0/P10-ANI7/P17
63 AVDD
54 AGND
64 AVREF
44-47 INTP0/P00-INTP3/P03
43 RESET
51 VPP