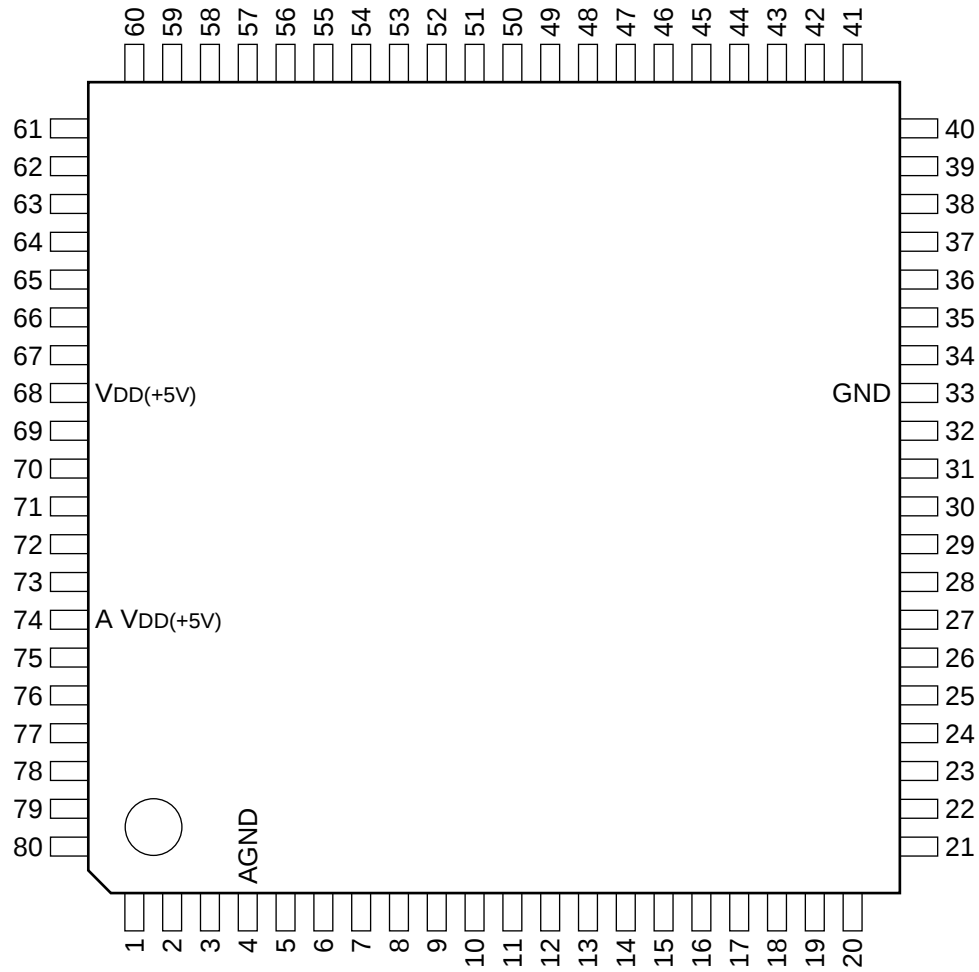

C-MOS 8-BIT MICROCOMPUTER

—TOP VIEW—



(A V_{DD}, V_{DD} = +5V)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I/O	P15/ANI5	21	I/O	P42/AD2	41	I/O	P65/ $\overline{WR}$	61	I	P00/INTP0/TI00
2	I/O	P16/ANI6	22	I/O	P43/AD3	42	I/O	P66/ $\overline{WAIT}$	62	I/O	P01/INTP1/TI01
3	I/O	P17/ANI7	23	I/O	P44/AD4	43	I/O	P67/ASTB	63	I/O	P02/INTP2
4	—	AGND	24	I/O	P45/AD5	44	I/O	P30/TO0	64	I/O	P03/INTP3
5	I/O	P130/ANO0	25	I/O	P46/AD6	45	I/O	P31/TO1	65	I/O	P04/INTP4
6	I/O	P131/ANO1	26	I/O	P47/AD7	46	I/O	P32/TO2	66	I/O	P05/INTP5
7	I	AVREF1	27	I/O	P50/A8	47	I/O	P33/TI1	67	I/O	P06/INTP6
8	I/O	P70/SI2/RXD	28	I/O	P51/A9	48	I/O	P34/TI2	68	—	V _{DD}
9	I/O	P71/SO2/TXD	29	I/O	P52/A10	49	I/O	P35/PCL	69	—	X2
10	I/O	P72/ $\overline{SCK2}$ /ASCK	30	I/O	P53/A11	50	I/O	P36/BUZ	70	I	X1
11	I/O	P20/SI1	31	I/O	P54/A12	51	I/O	P37	71	—	IC
12	I/O	P21/SO1	32	I/O	P55/A13	52	I/O	P120/RTP0	72	—	XT2
13	I/O	P22/ $\overline{SCK1}$	33	—	GND	53	I/O	P121/RTP1	73	I	P07/XT1
14	I/O	P23/STB	34	I/O	P56/A14	54	I/O	P122/RTP2	74	—	AV _{DD}
15	I/O	P24/BUSY	35	I/O	P57/A15	55	I/O	P123/RTP3	75	I	AVREF0
16	I/O	P25/SI0/SB0	36	I/O	P60	56	I/O	P124/RTP4	76	I/O	P10/ANI0
17	I/O	P26/SO0/SB1	37	I/O	P61	57	I/O	P125/RTP5	77	I/O	P11/ANI1
18	I/O	P27/ $\overline{SCK0}$	38	I/O	P62	58	I/O	P126/RTP6	78	I/O	P12/ANI2
19	I/O	P40/AD0	39	I/O	P63	59	I/O	P127/RTP7	79	I/O	P13/ANI3
20	I/O	P41/AD1	40	I/O	P64/ $\overline{RD}$	60	I	$\overline{RESET}$	80	I/O	P14/ANI4

61	P00/INTP0/TI00	P40/AD0	19
62	P01/INTP1/TI01	P41/AD1	20
63	P02/INTP2	P42/AD2	21
64	P03/INTP3	P43/AD3	22
65	P04/INTP4	P44/AD4	23
66	P05/INTP5	P45/AD5	24
67	P06/INTP6	P46/AD6	25
73	P07/XT1	P47/AD7	26
72	XT2	P50/A8	27
76	P10/ANI0	P51/A9	28
77	P11/ANI1	P52/A10	29
78	P12/ANI2	P53/A11	30
79	P13/ANI3	P54/A12	31
80	P14/ANI4	P55/A13	32
1	P15/ANI5	P56/A14	34
2	P16/ANI6	P57/A15	35
3	P17/ANI7	P60	36
11	P20/SI1	P61	37
12	P21/SO1	P62	38
13	P22/ $\overline{\text{SCK1}}$	P63	39
14	P23/STB	P64/ $\overline{\text{RD}}$	40
15	P24/BUSY	P65/ $\overline{\text{WR}}$	41
16	P25/SI0/SB0	P66/ $\overline{\text{WAIT}}$	42
17	P26/SO0/SB1	P67/ASTB	43
18	P27/ $\overline{\text{SCK0}}$	P70/SI2/RXD	8
44	P30/TO0	P71/SO2/TXD	9
45	P31/TO1	P72/ $\overline{\text{SCK2}}$ /ASCK	10
46	P32/TO2	P120/RTP0	52
47	P33/TI1	P121/RTP1	53
48	P34/TI2	P122/RTP2	54
49	P35/PCL	P123/RTP3	55
50	P36/BUZ	P124/RTP4	56
51	P37	P125/RTP5	57
75	AVREF0	P126/RTP6	58
7	AVREF1	P127/RTP7	59
71	IC	P130/ANO0	5
60	RESET	P131/ANO1	6
70	X1		
69	X2		

INPUT

ANI0 - ANI7	; ANALOG 0 - 7 (A/D CONVERTER)
ASCK	; ASYNCHRONOUS SERIAL CLOCK
ASTB	; ADDRESS STROBE
AVREF0	; ANALOG REFERENCE VOLTAGE (A/D CONVERTER)
AVREF1	; ANALOG REFERENCE VOLTAGE (D/A CONVERTER)
BUSY	; BUSY
INTP0 - INTP6	; INTERRUPT FROM PERIPHERALS 0 - 6
PO0, PO7	; PORT 0
$\overline{\text{RESET}}$	; RESET
RXD	; RECEIVE DATA
SI0 - SI2	; SERIAL DATA 0 - 2
TI00	; EXTERNAL COUNT CLOCK 0
TI01	; CAPTURE TRIGGER
TI1, TI2	; EXTERNAL COUNT CLOCK 1, 2
$\overline{\text{WAIT}}$	; WAIT
X1, X2	; CRYSTAL1, 2 (MAIN SYSTEM CLOCK)
XT1, XT2	; CRYSTAL1, 2 (SUB SYSTEM CLOCK)

OUTPUT

A8 - A15	; ADDRESS BUS
ANO0, ANO1	; ANALOG 0, 1 (D/A CONVERTER)
BUZ	; BUZZER CLOCK
PCL	; PROGRAMMABLE CLOCK
$\overline{\text{RD}}$	; READ STROBE
RTP0 - RTP7	; REAL-TIME PORT
SO0 - SO2	; SERIAL DATA 0 - 2
STB	; STROBE
TO0 - TO2	; TIMER 0 - 2
TXD	; TRANSMIT DATA
$\overline{\text{WR}}$	; WRITE STROBE

INPUT/OUTPUT

AD0 - AD7	; ADDRESS/DATA BUS 0 - 7
P01 - P06	; PORT 0
P10 - P17	; PORT 1
P20 - P27	; PORT 2
P30 - P37	; PORT 3
P40 - P47	; PORT 4
P50 - P57	; PORT 5
P60 - P67	; PORT 6
P70 - P72	; PORT 7
P120 - P127	; PORT 12
P130, P131	; PORT 13
SB0, SB1	; SERIAL DATA BUS 0, 1
$\overline{\text{SCK0}}$ - $\overline{\text{SCK2}}$	; SERIAL CLOCK 0 - 2

OTHER

IC	; INTERNALLY CONNECTED
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