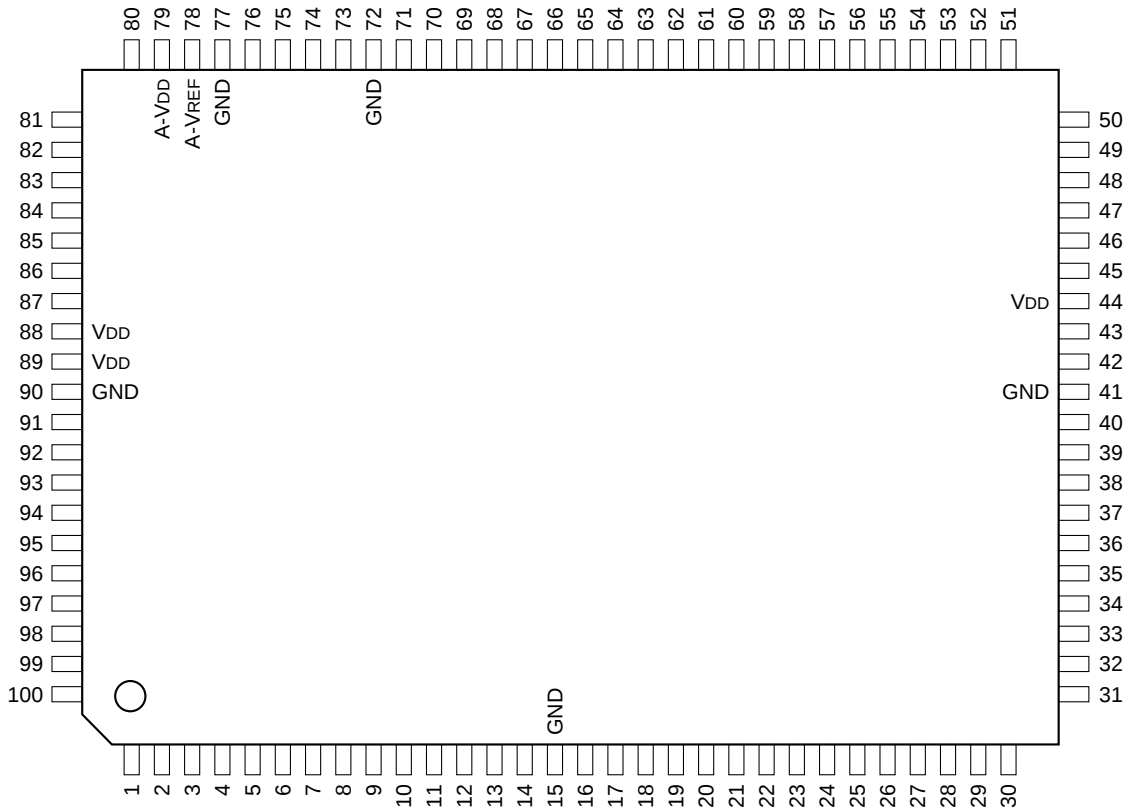


C-MOS 16-BIT SINGLE CHIP MICROCOMPUTER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	PB2/PPO010	26	I/O	PE2	51	I	PG6/RFG0	76	I	AN3
2	O	PB3/PPO011	27	I/O	PE3	52	I	PG7/RFG1	77	—	GND
3	O	PB4/PPO012	28	I/O	PE4	53	I	PH0/EXI0	78	—	A-VREF
4	O	PB5/PPO013	29	I/O	PE5	54	I	PH1/EXI1	79	—	A-VDD
5	O	PB6/PPO014	30	I/O	PE6	55	I	PH2/SYNC0/PMI	80	I/O	PJ0/AN4/KS8
6	O	PB7/PPO015	31	I/O	PE7	56	I	PH3/SYNC1	81	I/O	PJ1/AN5/KS9
7	I/O	PC0/PPO016	32	I	PF0/EC0/INT0	57	I	PH4/PMSK	82	I/O	PJ2/AN6/KS10
8	I/O	PC1/PPO017	33	I	PF1/EC2/INT1	58	I	PH5/DPG	83	I/O	PJ3/AN7/KS11
9	I/O	PC2/PPO018	34	I	PF2/CS1/NMI/CINT	59	I	PH6/DFG	84	I/O	PJ4/AN8/KS12
10	I/O	PC3/RTO0	35	I	PF3/SI1/INT2	60	I	PH7/CFG	85	I/O	PJ5/AN9/KS13
11	I/O	PC4/RTO1	36	O	PF4/SO1	61	I	CS0	86	I/O	PJ6/AN10/KS14
12	I/O	PC5/RTO2	37	I/O	PF5/SCK1	62	I	SI0	87	I/O	PJ7/AN11/KS15
13	I/O	PC6/RTO3	38	O	PF6/T1	63	O	SO0	88	—	VDD
14	I/O	PC7/RTO4	39	O	PF7/T2	64	I/O	SCK0	89	—	VDD
15	—	GND	40	I/O	RST	65	I/O	PI0/SI2	90	—	GND
16	I/O	PD0/KS0	41	—	GND	66	I/O	PI1/SO2	91	O	PA0/PPO000/PPO100
17	I/O	PD1/KS1	42	O	XTAL	67	I/O	PI2/SCK2	92	O	PA1/PPO001/PPO101
18	I/O	PD2/KS2	43	I	EXTAL	68	I/O	PI3/PO	93	O	PA2/PPO002/PPO102
19	I/O	PD3/KS3	44	—	VDD	69	I	PI4/PCK/OSCI	94	O	PA3/PPO003/PPO103
20	I/O	PD4/KS4	45	O	PG0/PWM0	70	I	PI5/OSCO	95	O	PA4/PPO004/PPO104
21	I/O	PD5/KS5	46	O	PG1/PWM1	71	I/O	PI6/XOUT	96	O	PA5/PPO005/PPO105
22	I/O	PD6/KS6	47	O	PG2/PWM2	72	—	GND	97	O	PA6/PPO006/PPO106
23	I/O	PD7/KS7	48	O	PG3/PWM3	73	I	PI7/AN0	98	O	PA7/PPO007/PPO107
24	I/O	PE0	49	O	PG4/DA0	74	I	AN1	99	O	PB0/PPO008/PPO108
25	I/O	PE1	50	O	PG5/DA1	75	I	AN2	100	O	PB1/PPO009/PPO109

INPUT

AN0 - AN11	: A/D CONVERTER ANALOG SIGNAL
CFG	: CAPSTAN FG
CINT	: EXTERNAL CAPTURE FOR TIMER/COUNTER
CS0	: CH0 SERIAL CHIP SELECT
CS1	: CH1 SERIAL CHIP SELECT
DFG	: DRUM FG
DPG	: DRUM PG
EC0, EC2	: EXTERNAL EVENT INPUT FOR TIMER/COUNTER
EXI0, EXI1	: EXTERNAL INPUT FOR FRC CAPTURE UNIT
EXTAL	: EXTERNAL CRYSTAL OSCILLATOR FOR SYSTEM CLOCK
INT0 - INT2	: EXTERNAL INTERRUPT REQUEST
NMI	: NON-MASKABLE INTERRUPT REQUEST
OSCI	: EXTERNAL CRYSTAL OSCILLATOR FOR PRE-SCALER
PCK	: PRE-SCALER CLOCK
PFO - PF3	: PORT F
PG6, PG7	: PORT G
PH0 - PH7	: PORT H
PI4 - PI7	: PORT I
PMI	: PULSE INPUT FOR PULSE DURATION MEASURING CIRCUIT
PMSK	: MASK INPUT FOR PULSE DURATION MEASURING CIRCUIT
RFG0, RFG1	: REEL FG
SI0	: CH0 SERIAL DATA
SI1	: CH1 SERIAL DATA
SI2	: CH2 SERIAL DATA
SYNC0, SYNC1	: COMPOSITE SYNC

OUTPUT

DA0, DA1	: DA GATE PULSE
OSCO	: EXTERNAL CRYSTAL OSCILLATOR FOR PRE-SCALER
PA0 - PA7	: PORT A
PB0 - PB7	: PORT B
PF4 - PF7	: PORT F
PG0 - PG4	: PORT G
PO	: PRE-SCALER
PPO000 - PPO018	: PROGRAMMABLE PATTERN GENERATOR
PPO100 - PPO109	: PROGRAMMABLE PATTERN GENERATOR
PWM0 - PWM3	: 4-BIT PWM
RTO0 - RTO4	: REAL TIME PULSE GENERATOR
SO0	: CH0 SERIAL DATA
SO1	: CH1 SERIAL DATA
SO2	: CH2 SERIAL DATA
T1	: 8-BIT TIMER/COUNTER
T2	: 16-BIT CAPTURE TIMER/COUNTER
XOUT	: CLOCK GENERATOR
XTAL	: EXTERNAL CRYSTAL FOR SYSTEM CLOCK

INPUT/OUTPUT

PC0 - PC7	: PORT C
PD0 - PD7	: PORT D
PE0 - PE7	: PORT E
PI0 - PO3	: PORT I
PJ0 - PJ7	: PORT J
RST	: SYSTEM RESET
SCK0	: CH0 SERIAL CLOCK
SCK1	: CH1 SERIAL DATA
SCK2	: CH2 SERIAL CLOCK