

TC4000 Series

PRODUCT NAME	FUNCTION	PAGE
TC4000BP	DUAL 3 INPUT NOR GATE PLUS INVERTER	75
TC4001BP/BF/BFN	QUAD 2 INPUT NOR GATE	80
TC4001UBP	QUAD 2 INPUT NOR GATE	83
TC4002BP/BF	DUAL 4 INPUT NOR GATE	80
TC4006BP	18-STAGE STATIC SHIFT REGISTER ✓	86
TC4007UBP/UBF	DUAL COMPLEMENTARY PAIR+INVERTER GATES	90
TC4008BP	4-BIT FULL ADDER	94
TC4009UBP	HEX BUFFER/CONVERTER (Inverting Type)	97
TC4010BP	HEX BUFFER/CONVERTER (Non-Inverting Type)	97
TC4011BP/BF/BFN	QUAD 2 INPUT NAND GATE	101
TC4011UBP/UBFN	QUAD 2 INPUT NAND GATE	83
TC4012BP/BF	DUAL 4 INPUT NAND GATE	101
TC4013BP/BF/BFN	DUAL D-TYPE FLIP FLOP	104
TC4014BP	8-STAGE STATIC SHIFT REGISTER ✓	109
TC4015BP/BF/BFN	DUAL 4-STAGE SHIFT REGISTER ✓	113
TC4016BP/BF/BFN	QUAD BILATERAL SWITCH	117
TC4017BP/BF	DECADE COUNTER/DIVIDER	122 ✓
TC4018BP	PRESETTABLE DIVIDE-BY-"N" COUNTER	127 ✓
TC4019BP/BF/BFN	QUAD AND/OR SELECT GATE (GATES ?)	132
TC4020BP/BF/BFN	14 STAGE RIPPLE-CARRY BINARY COUNTER/DIVIDERS	135 ✓
TC4021BP/BF/BFN	8-STAGE STATIC SHIFT REGISTER ✓	140
TC4022BP	OCTAL COUNTER/DIVIDER	145 ✓
TC4023BP/BF/BFN	TRIPLE 3 INPUT NAND GATE	101
TC4024BP/BF/BFN	7 STAGE RIPPLE-CARRY BINARY COUNTER/DIVIDERS	150 ✓
TC4025BP/BF/BFN	TRIPLE 3 INPUT NOR GATE	80
TC4027BP/BF/BFN	DUAL J-K MASTER-SLAVE FLIP-FLOP	154
TC4028BP/BF/BFN	BCD-TO-DECOMAL DECODER	159
TC4029BP/BF	PRESETTABLE UP/DOWN COUNTER	162 ✓
TC4030BP/BF/BFN	QUAD EXCLUSIVE-OR GATE	168
TC4032BP	TRIPLE SERIAL ADDER (Positive Adder)	171
TC4034BP	8-STAGE STATIC BIDIRECTIONAL PARALLEL?SERIAL IN/OUT BUS REGISTER ✓	176
TC4035BP	4-STAGE PARALLEL IN/PARALLEL OUT SHIFT REGISTER ✓	181
TC4036BP	4 WORD × 8 BIT STATIC RAM	186
TC4038BP	TRIPLE SERIAL ADDER (Negative Adder)	171
TC4039BP	4 WORD × 8 BIT STATIC RAM	186

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PRODUCT NAME	FUNCTION	PAGE
TC4040BP/BF/BFN	12 STAGE RIPPLE-CARRY BINARY COUNTER/DIVIDERS	192
TC4042BP/BF/BFN	QUAD CLOCKED "D" LATCH	197
TC4043BP	QUAD 3-STAGE NOR R/S LATCH	202
TC4044BP/BF/BFN	QUAD 3-STATE NAND R/S LATCH	206
TC4047BP	LOW-POWER MONOSTABLE/ASTABLE MULTIVIBRATOR	210
TC4049BP/BF/BFN	HEX BUFFER/CONVERTER (Inverting Type)	217
TC4050BP/BF/BFN	HEX BUFFER/CONVERTER (Non-Inverting Type)	217
TC4051BP/BF/BFN	SINGLE 8-CHANNEL MULTIPLEXER/DEMULTIPLEXER	220
TC4052BP/BF/BFN	DIFFERENTIAL 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER	220
TC4053BP/BF/BFN	TRIPLE 2- CHANNEL MULTIPLEXER/DEMULTIPLEXER	220
TC4054BP/BF	LIQUID-CRYSTAL DISPLAY DRIVER (4-Segment)	225
TC4055BP	LIQUID-CRYSTAL DISPLAY DRIVER (BCD TO 7-Segment)	229
TC4056BP/BF	LIQUID-CRYSTAL DISPLAY DRIVER (BCD TO 7-Segment)	229
TC4063BP/BF	4-BIT MAGNITUDE COMPARATOR	234
TC4066BP/BF/BFN	QUAD BILATERAL SWITCH	238
TC4068BP/BF	8 INPUT NAND/AND GATE	243
TC4069UBP/UBF/UBFN	HEX INVERTER	246
TC4071BP/BF/BFN	QUAD 2 INPUT OR GATE	249
TC4072BP/BF	DUAL 4 INPUT OR GATE	249
TC4073BP/BF/BFN	TRIPLE 3 INPUT AND GATE.	252
TC4075BP/BF	TRIPLE 3 INPUT OR GATE	249
TC4076BP	4-BIT D-TYPE REGISTER	255
TC4077BP/BF/BFN	QUAD EXCLUSIVE-NOR GATE	260
TC4078BP/BF	8 INPUT NOR/OR GATE	263
TC4081BP/BF/BFN	QUAD 2 INPUT AND GATE	252
TC4082BP	DUAL 4 INPUT AND GATE	252
TC4085BP	DUAL 2-WIDE 2 INPUT AND-OR-INVERT GATE	266
TC4086BP	4-WIDE 2 INPUT AND-OR-INVERT GATE	269
TC4093BP/BF/BFN	QUAD 2 INPUT NAND SCHMITT TRIGGER	273
TC4094BP/BF/BFN	8-BIT SHIFT-AND-STORE BUS REGISTER	276
TC4099BP/BF	8-BIT ADDRESSABLE LATCH	282
TC40102BP	8-STAGE PRESETTABLE DOWN COUNTER (2-Decode BCD Type)	287
TC40103BP	8-STAGE PRESETTABLE DOWN COUNTER (8-Bit Binary Type)	287
TC40104BP	4-BIT BIDIRECTIONAL SHIFT REGISTER WITH 3-STATE OUTPUTS	296
TC40107BP	DUAL 2 INPUT NAND BUFFER/DRIVER	302

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TC40117BP	PROGRAMMABLE DUAL 4-BIT TERMINATOR	305
✓ TC40160BP	PROGRAMMABLE DECADE COUNTER WITH ASYNCHRONOUS CLEAR	310 ✓
✓ TC40161BP	PROGRAMMABLE BINARY COUNTER WITH ASYNCHRONOUS CLEAR	310 ✓
✓ TC40162BP	PROGRAMMABLE DECADE COUNTER WITH SYNCHRONOUS CLEAR	310 ✓
✓ TC40163BP	PROGRAMMABLE BINARY COUNTER WITH SYNCHRONOUS CLEAR	310 ✓
✓ TC40174BP/BF	HEX "D"-TYPE FLIP-FLOP	318
✓ TC40175BP/BF	QUAD "D"-TYPE FLIP-FLOP	322
✓ TC40192BP	PRESETTABLE BCD UP/DOWN COUNTER	326 ✓
✓ TC40193BP	PRESETTABLE BINARY UP/DOWN COUNTER	326 ✓
✓ TC40194BP	4-BIT BIDIRECTIONAL SHIFT REGISTER WITH RESET ✓	296

TC4500 Series

PRODUCT NAME	FUNCTION	PAGE
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✓ TC4502BP	STROBED HEX INVERTER/BUFFER <i>3039</i>	337
✓ TC4503BP/BF	HEX NON-INVERTING 3-STATE BUFFER <i>3039</i>	341
✓ TC4508BP	DUAL 4-BIT LATCH <i>3039</i>	344
✓ TC4510BP/BF	PRESETTABLE BCD UP/DOWN COUNTER	349 ✓
✓ TC4511BP/BF/BFN	BCD TO 7-SEGMENT LATCH/DECODER/DRIVER	355
✓ TC4512BP/BF/BFN	8-CHANNEL DATA SELECTOR	360
✓ TC4514BP	4-BIT LATCH/4-TO-16 LINE DECODER (High)	365
✓ TC4515BP	4-BIT LATCH/4-TO-16 LINE DECODER (Low)	365 ✓
✓ TC4516BP/BF	PRESETTABLE BINARY UP/DOWN COUNTER	370 ✓
✓ TC4518BP/BF/BFN	DUAL BCD UP COUNTER	376 ✓
✓ TC4519BP	4-BIT AND/OR SELECTOR	383
✓ TC4520BP/BF/BFN	DUAL BINARY UP COUNTER	376 ✓
✓ TC4521BP	24-STAGE FREQUENCY DIVIDER	386 ✓
✓ TC4522BP	PROGRAMMABLE DIVIDE-BY-N 4-BIT COUNTER (BCD)	391 ✓
✓ TC4526BP/BF	PROGRAMMABLE DIVIDE-BY-N 4-BIT COUNTER (Binary)	391 ✓
✓ TC4527BP	BCD RATE MULTIPLIER	399
✓ TC4528BP/BF/BFN	DUAL MONOSTABLE MULTIVIBRATOR	405
✓ TC4530BP	DUAL 5-INPUT MAJORITY LOGIC GATE	410
✓ TC4531BP	12-BIT PARITY TREE	413
✓ TC4532BP	8-BIT PRIORITY ENCODER	416
✓ TC4538BP/BF	DUAL PRECISION MONOSTABLE MULTIVIBRATOR	420
✓ TC4539BP/BF	DUAL 4-CHANNEL DATA SELECTOR/MULTIPLEXER	425

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PRODUCT NAME	FUNCTION	PAGE
TC4543BP/BF	BCD TO 7-SEGMENT LATCH/DECODER/DRIVER	428
✓ TC4555BP	DUAL BINARY TO 1-OF-4 DECODER/DEMULTIPLEXER (High)	433
✓ TC4556BP/BF	DUAL BINARY TO 1-OF-4 DECODER/DEMULTIPLEXER (Low)	433
✓ TC4560BP	NBCD ADDER	437
✓ TC4561BP	9's COMPLEMENTER	442
✓ TC4572BP/BF	HEX GATE (4 INVERTER+2 Input NOR+2 Input NAND)	446
✓ TC4583BP	DUAL SCHMITT TRIGGER	449
✓ TC4584BP/BF/BFN	HEX SCHMITT TRIGGER	453
✓ TC4585BP	4-BIT MAGNITUDE COMPARATOR	456

TC5000 Series

PRODUCT NAME	FUNCTION	PAGE
✓ TC5001P	4-DIGIT DECADE COUNTER	460 ✓
TC5002BP	BCD TO 7-SEGMENT DECODER/LED DRIVER	470
TC5012BP/BF	HEX NON-INVERTING 3-STATE BUFFER <i>3USD</i>	475
✓ TC5018P	4-BIT BINARY COUNTER/CLOCK GENERATOR	478
✓ TC5020BP	HEX LOW-TO-HIGH VOLTAGE TRANSLATOR	482
TC5022BP	BCD TO 7-SEGMENT DECODER/LED DRIVER	470
✓ TC5023BP	16-CHANNEL MULTIPLEXER	485
TC5024BP	QUAD 3-STATE NON-INVERTING BUFFER <i>P. 488</i>	488
TC5025BP	QUAD 3-STATE NON-INVERTING BUFFER <i>488</i>	488
✓ TC5026BP	DECADE COUNTER	492 ✓
✓ TC5027BP	BINARY COUNTER	496 ✓
✓ TC5029BP	QUAD 2-INPUT NAND OPEN DRAIN GATE (N-CHANNEL)	500
✓ TC5032P	6-DIGIT DECADE COUNTER	503 ✓
✓ TC5036AP	17-STAGE HIGH SPEED FREQUENCY DIVIDER	512
✓ TC5037P	4-DIGIT DECADE COUNTER	517
TC5043P	CR TIMER	524
✓ TC5048AP	17-STAGE HIGH SPEED FREQUENCY DIVIDER	512 ✓
✓ TC5050P	DUAL 50/64-STAGE STATIC SHIFT REGISTER ✓	531
✓ TC5051P	4-DIGIT DECADE COUNTER	533 ✓
✓ TC5052P	4-DIGIT DECADE COUNTER	533 ✓
✓ TC5053P	4-DIGIT UP/DOWN DECADE COUNTER	540 ✓
✓ TC5054P	4-DIGIT UP/DOWN DECADE COUNTER	540 ✓
✓ TC5064BP	HEX HIGH VOLTAGE BUFFER WITH INHIBIT	547

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PRODUCT NAME	FUNCTION	PAGE
TC5065BP	HEX HIGH VOLTAGE BUFFER WITH INHIBIT	547
TC5066BP	7-LINE HIGH VOLTAGE BUFFER	551
TC5067BP	7-LINE HIGH VOLTAGE BUFFER	551
TC5068BP	BCD-TO-7 SEGMENT LATCH/DECODER/DRIVER	555
TC5069BP	BCD-TO-7 SEGMENT LATCH/DECODER/DRIVER	555
TC5070P	6 DIGIT UNIVERSAL COUNTER "999999"	561
TC5071P	6 DIGIT UNIVERSAL TIMER "995959"	561
TC5072P	6 DIGIT UNIVERSAL TIMER "595999"	561

TC5000 Series/TC35000 Series (A/D CONVERTER Series)

PRODUCT NAME	FUNCTION	PAGE
TC5090AP	8 BIT A/D CONVERTER	575
TC5091AP	8 BIT A/D CONVERTER (WITH 6ch ANALOG MPX.)	588
TC5092AP	13 BIT A/D CONVERTER (WITH 8ch ANALOG MPX.)	601
TC5093AP	8 BIT A/D CONVERTER (WITH 8ch ANALOG MPX.)	612
TC35094P	8 BIT A/D CONVERTER	618
TC35095P	8 BIT 8ch SERIAL I/O A/D CONVERTER	623
TC35096P	8 BIT 4ch SERIAL I/O A/D CONVERTER	629
TC35097P	8 BIT 2ch SERIAL I/O A/D CONVERTER	635
TC35098P	8 BIT SERIAL I/O A/D CONVERTER	640
TC35080P	10 BIT 8ch SERIAL I/O A/D CONVERTER	646
TC35081P	10 BIT BYTE OUTPUT A/D CONVERTER	657
TC35082P	10 BIT PARALLEL OUTPUT A/D CONVERTER	667
TC35083P	10 BIT 2ch PARALLEL OUTPUT A/D CONVERTER	677