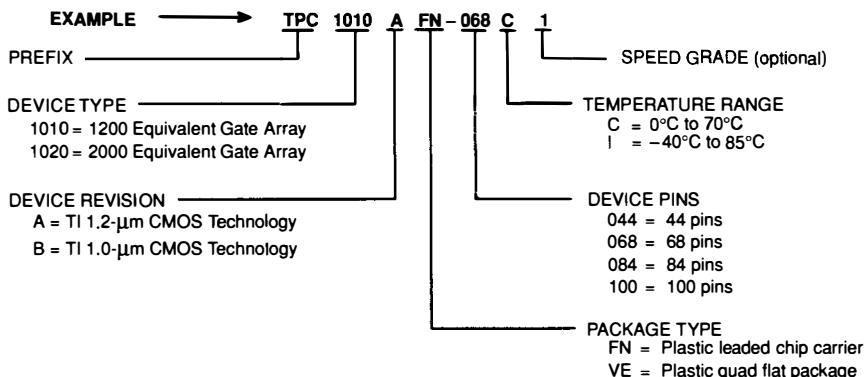
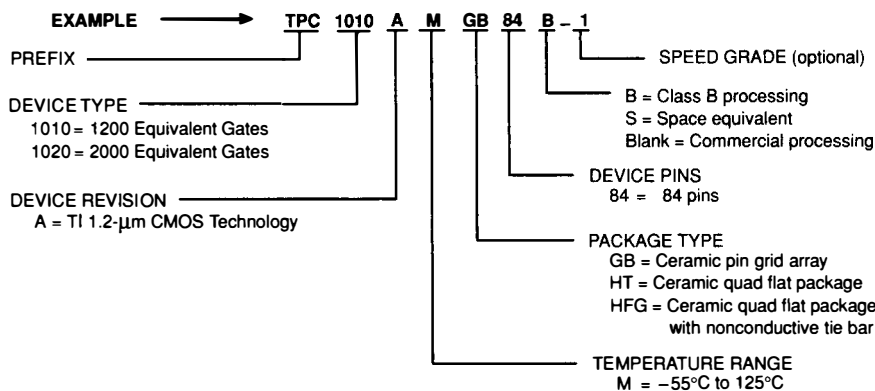


ordering information

Configurations of the TPC10 Series devices can be ordered using the part numbers in the examples below. Commercial and industrial versions can be ordered as follows:



Military versions can be ordered as follows:



DEFENSE ELECTRONIC SYSTEM CENTER (DESC) NUMBER

DEVICE NAME	AVAILABLE PROCESSING	DESC NUMBER
TPC1010AM	Class B	5962-9096401M
TPC1020AM	Class B Space Equivalent	5962-9096501M

macro library

The TPC10 Series is supported by a macro library of more than 250 hardwired and soft macro functions. The macros range from primitive logic gates to MSI-level complex functions such as counters, decoders, and comparators. The hardwired macro characteristics are provided in the electrical and switching characteristics. The software macros have characteristics similar to the components of the macro but need the place and route data back annotated into the design to establish actual performance.

The FPGA logic module implements logic functions with inverted inputs as efficiently as noninverted inputs, without an increase in propagation delay. By taking advantage of the various combinations of input polarity, the use of separate inverters can be virtually eliminated.

TPC10 SERIES CMOS FIELD-PROGRAMMABLE GATE ARRAYS

SF8001F - D3864, DECEMBER 1989 - REVISED FEBRUARY 1993

TPC10 SERIES SOFTWARE MACROS

MACRO NAME	DESCRIPTION	MODULE COUNT	LOGIC LEVELS
CNT4A	4-Bit Binary Counter With Load and Clear	18	4
CNT4B	4-Bit Presettable Binary Counter With Load and Clear	15	4
DEC2X4	2-Line to 4-Line Decoder	4	1
DEC2X4A	2-Line to 4-Line Inverting Decoder	4	1
DECE2X4	2-Line to 4-Line Decoder With Enable	4	1
DECE2X4A	2-Line to 4-Line Inverting Decoder With Enable	5	1
DEC3X8	3-Line to 8-Line Decoder	8	1
DEC3X8A	3-Line to 8-Line Inverting Decoder	9	1
DECE3X8	3-Line to 8-Line Decoder With Enable	11	2
DECE3X8A	3-Line to 8-Line Inverting Decoder With Enable	11	2
DEC4X16A	4-Line to 16-Line Inverting Decoder	20	2
DLC8A	Octal D-Type Latch With Clear	8	1
DLE8	Octal D-Type Latch With Enable	8	1
DLM8	Octal D-Type Latch With Multiplexed Inputs	8	1
FA1	1-Bit Full Adder	3	3
FADD8	8-Bit Fast Adder	37	4
FADD12	12-Bit Fast Adder	58	5
FADD16	16-Bit Fast Adder	79	5
FADD24	24-Bit Fast Adder	120	6
FADD32	32-Bit Fast Adder	160	7
ICMP4	4-Bit Identity Comparator	5	2
ICMP8	8-Bit Identity Comparator	9	3
MCMP2	2-Bit Magnitude Comparator With Enable	9	3
MCMP4	4-Bit Magnitude Comparator With Enable	18	4
MCMP8	8-Bit Magnitude Comparator With Enable	36	6
MCMP16	16-Bit Magnitude Comparator	93	5
MX8	8-Line to 1-Line Multiplexer	3	2
MX8A	8-Line to 1-Line Inverting Multiplexer	3	2
MX16	16-Line to 1-Line Multiplexer	5	2
REGE8A	Octal Register With Preset and Clear	20	1
REGE8B	Octal Register With Preset and Clear	20	1
SMULT8	8 x 8 Twos Complement Multiplier	241	1
SREG4A	4-Bit Shift Register With Clear	8	1
SREG8A	8-Bit Shift Register With Clear	18	1
TA138	3-Line to 8-Line Decoder/Demultiplexer	12	2
TA139	2-Line to 4-Line Decoder/Demultiplexer	4	1
TA151	8-Line to 1-Line Multiplexer	5	3
TA153†	4-Line to 1-Line Multiplexer	2	2
TA157†	2-Line to 1-Line Multiplexer	1	1
TA161	Synchronous 4-Bit Counter With Direct Clear	22	3
TA164	8-Bit Parallel-Out Shift Register	18	1
TA169	4-Bit Up/Down Counter	25	6
TA194	4-Bit Bidirectional Universal Shift Register	14	1
TA195	4-Bit Parallel-Access Shift Register	11	1
TA269	8-Bit Up/Down Counter	50	8
TA273	Octal D-Type Flip-Flop With Clear	18	1
TA280	9-Bit Odd/Even Parity Generator/Checker	9	4
TA377	Octal D-Type Flip-Flop With Clock Enable	16	1
UDCNT4A	4-Bit Up/Down Counter With Sync Load and Carry	24	6

† These MSI functions are hardwired.

TPS76818QPW	23480	新环保批次	SMD
TPS76825QPWPRG4	23480	新环保批次	SSOP
TPS76830QPWPRQ1	23480	新环保批次	HTSSOP20
TPS76830QPWP	23480	新环保批次	HTSSOP-20
TPS76815QDQ4	23480	新环保批次	
TPS76833DC	23480	新环保批次	sop
TPS76825QDRG4	23480	新环保批次	SOP8
TPS76850PWP	23480	新环保批次	TSSOP20
TPS76818PWP	23480	新环保批次	TSSOP20
TPS76833QPWPRG4	23480	新环保批次	HTSSOP
TPS76827QD	23480	新环保批次	8-SOIC
TPS76825QDQ4	23480	新环保批次	8-SOIC
TPS76850QDQ4	23480	新环保批次	8-SOIC
TPS76833QPWPG4	23480	新环保批次	20-HTSSOP
TPS76827QDQ4	23480	新环保批次	SOP8
TPS76827QPWPG4	23480	新环保批次	TSOP20
TPS76818QPWPREP	23480	新环保批次	TSOP20
TPS76827QDR	23480	新环保批次	SOP8
TPS76828QDR	23480	新环保批次	SOP8
TPS76833DR	23480	新环保批次	SOP8
TPS76850PWPR	23480	新环保批次	HTSSOP
TPS76825PWPR	23480	新环保批次	TSSOP
TPS76850MPWPREP	23480	新环保批次	20-HTSSOP
TPS76833QPWR	23480	新环保批次	TSSOP20
TPS76801QPWR	23480	新环保批次	TSSOP
TPS76833KTTT	23480	新环保批次	
TPS76801QPWRG4	23480	新环保批次	
TPS76833QPWRG4	23480	新环保批次	
TPS76801QD	23480	新环保批次	SOP
TPS76801QDR	23480	新环保批次	SOP8
TPS76815QPWPRQ1	23480	新环保批次	TSOP
TPS76830QPWPREP	23480	新环保批次	HTSSOP20