

ALTERA FPGAs and CPLDs



Programmable Logic
Altera

NEW SUPPLIER

NEW SUPPLIER

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MAX FAMILY CLPDS (CONT.)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Altera Part No.	Package	Logic Elements	Typical Equivalent Macrocells	Speed Grade	No. of I/Os	Delay Time tpd(1) Max (ns)	Internal Voltage Supply (V)	Operating Temp. Range (°C)	Price Each
MAX V (Cont.)										
989-5M80ZE64C5N	5M80ZE64C5N	EQFP-64	80	64	-5	54	7.5	1.8	0 to 85	1.70
989-5M80ZE64I5N	5M80ZE64I5N	EQFP-64	80	64	-5	54	7.5	1.8	-40 to 100	2.40
989-5M80ZM64C5N	5M80ZM64C5N	MBGA-64	80	64	-5	30	7.5	1.8	0 to 85	2.00
989-5M80ZT100C5N	5M80ZT100C5N	TQFP-100	80	64	-5	79	7.5	1.8	0 to 85	1.90
989-5M160ZE64A5N	5M160ZE64A5N	QFP-64	160	128	-5	54	7.5	1.8	-40 to 125	5.10
989-5M160ZE64C4N	5M160ZE64C4N	QFP-64	160	128	-4	54	7.5	1.8	0 to 70	4.80
989-5M160ZE64C5N	5M160ZE64C5N	EQFP-64	160	128	-5	54	7.5	1.8	0 to 85	3.50
989-5M160ZE64I5N	5M160ZE64I5N	QFP-64	160	128	-5	54	7.5	1.8	-40 to 85	4.80
989-5M160ZM100C5N	5M160ZM100C5N	BGA-100	160	128	-5	79	7.5	1.8	0 to 70	4.70
989-5M160ZM100I5N	5M160ZM100I5N	BGA-100	160	128	-5	79	7.5	1.8	-40 to 85	5.50
989-5M160ZT100C5N	5M160ZT100C5N	TQFP-100	160	128	-5	79	7.5	1.8	0 to 85	3.70
989-5M160ZT100I5N	5M160ZT100I5N	TQFP-100	160	128	-5	79	7.5	1.8	-40 to 85	5.10
989-5M240ZM100C5N	5M240ZM100C5N	BGA-100	240	192	-5	79	7.5	1.8	0 to 70	6.10
989-5M240ZM100I5N	5M240ZM100I5N	BGA-100	240	192	-5	79	7.5	1.8	-40 to 85	7.30
989-5M240ZM68C5N	5M240ZM68C5N	BGA-68	240	192	-5	52	7.5	1.8	0 to 70	5.90
989-5M240ZT100C5N	5M240ZT100C5N	TQFP-100	240	192	-5	79	7.5	1.8	0 to 85	4.90
989-5M240ZT100I5N	5M240ZT100I5N	TQFP-100	240	192	-5	79	7.5	1.8	-40 to 85	6.80
989-5M240ZT144C5N	5M240ZT144C5N	TQFP-144	240	192	-5	114	7.5	1.8	0 to 85	4.90
989-5M570ZT144C4N	5M570ZT144C4N	TQFP-144	570	440	-4	114	9	1.8	0 to 70	13.20
989-5M570ZF256C5N	5M570ZF256C5N	FBGA-256	570	440	-5	159	9	1.8	0 to 85	12.00
989-5M570ZM100I5N	5M570ZM100I5N	BGA-100	570	440	-4	74	9	1.8	-40 to 85	12.10
989-5M570ZT100C5N	5M570ZT100C5N	TQFP-100	570	440	-5	74	9	1.8	0 to 85	7.50
989-5M570ZT100I5N	5M570ZT100I5N	TQFP-100	570	440	-5	74	9	1.8	-40 to 100	9.70
989-5M570ZT144C5N	5M570ZT144C5N	TQFP-144	570	440	-5	114	9	1.8	0 to 70	10.10
989-5M570ZT144I5N	5M570ZT144I5N	TQFP-144	570	440	-5	114	9	1.8	-40 to 85	13.20
989-5M1270ZF256C4N	5M1270ZF256C4N	FBGA-256	1270	980	-4	211	6.2	1.8	0 to 70	17.90
989-5M1270ZF324I5N	5M1270ZF324I5N	FBGA-324	1270	980	-5	271	6.2	1.8	-40 to 85	20.40
989-5M1270ZT144A5N	5M1270ZT144A5N	TQFP-144	1270	980	-5	114	6.2	1.8	-40 to 125	14.90
989-5M1270ZF256C5N	5M1270ZF256C5N	FBGA-256	1270	980	-5	211	6.2	1.8	0 to 85	13.70
989-5M1270ZF256I5N	5M1270ZF256I5N	FBGA-256	1270	980	-5	211	6.2	1.8	-40 to 100	17.90
989-5M1270ZF324C5N	5M1270ZF324C5N	FBGA-324	1270	980	-5	271	6.2	1.8	0 to 70	15.70
989-5M1270ZT144C4N	5M1270ZT144C4N	TQFP-144	1270	980	-4	114	6.2	1.8	0 to 70	14.30
989-5M1270ZT144C5N	5M1270ZT144C5N	TQFP-144	1270	980	-5	114	6.2	1.8	0 to 85	11.00
989-5M2210ZF256C4N	5M2210ZF256C4N	FBGA-256	2210	1700	-4	203	7	1.8	0 to 85	25.90
989-5M2210ZF256C5N	5M2210ZF256C5N	FBGA-256	2210	1700	-5	203	7	1.8	0 to 85	19.90
989-5M2210ZF256I5N	5M2210ZF256I5N	FBGA-256	2210	1700	-5	203	7	1.8	-40 to 100	25.90
989-5M2210ZF324C4N	5M2210ZF324C4N	FBGA-324	2210	1700	-4	271	7	1.8	0 to 70	29.30
989-5M2210ZF324I5N	5M2210ZF324I5N	FBGA-324	2210	1700	-5	271	7	1.8	-40 to 85	29.30

MAX 3000A

989-EPM3032ATC44-10N	EPM3032ATC44-10N	TQFP-44	2	32	-10	34	10	3.3	0 to 85	1.40
989-EPM3032ATC44-4N	EPM3032ATC44-4N	TQFP-44	2	32	-4	34	4.5	3.3	0 to 85	2.40
989-EPM3032ATI44-10N	EPM3032ATI44-10N	TQFP-44	2	32	-10	34	10	3.3	-40 to 100	1.45
989-EPM3064ALC44-10N	EPM3064ALC44-10N	PLCC-44	4	64	-10	34	10	3.3	0 to 85	2.10
989-EPM3064ATC100-4N	EPM3064ATC100-4N	TQFP-100	4	64	-4	66	4.5	3.3	0 to 85	5.90
989-EPM3064ATC100-7N	EPM3064ATC100-7N	TQFP-100	4	64	-7	66	4.5	3.3	0 to 70	3.75
989-EPM3064ATC100-10N	EPM3064ATC100-10N	TQFP-100	4	64	-10	66	10	3.3	0 to 85	3.10
989-EPM3064ATC44-10N	EPM3064ATC44-10N	TQFP-44	4	64	-10	34	10	3.3	0 to 85	2.55
989-EPM3064ATC44-4N	EPM3064ATC44-4N	TQFP-44	4	64	-4	34	4.5	3.3	0 to 85	5.35
989-EPM3064ATC44-7N	EPM3064ATC44-7N	TQFP-44	4	64	-7	34	4.5	3.3	0 to 70	2.90
989-EPM3064ATI100-10N	EPM3064ATI100-10N	TQFP-100	4	64	-10	66	10	3.3	-40 to 100	3.75
989-EPM3064ATI44-10N	EPM3064ATI44-10N	TQFP-44	4	64	-10	34	10	3.3	-40 to 100	2.90
989-EPM3128ATC100-5N	EPM3128ATC100-5N	TQFP-100	8	128	-5	80	5	3.3	0 to 85	18.75
989-EPM3128ATC100-7N	EPM3128ATC100-7N	TQFP-100	8	128	-7	80	7.5	3.3	0 to 85	11.75
989-EPM3128ATC100-10N	EPM3128ATC100-10N	TQFP-100	8	128	-10	80	10	3.3	0 to 85	8.60
989-EPM3128ATC144-5N	EPM3128ATC144-5N	TQFP-144	8	128	-5	96	5	3.3	0 to 85	20.00
989-EPM3128ATC144-10N	EPM3128ATC144-10N	TQFP-144	8	128	-10	96	5	3.3	0 to 70	9.20
989-EPM3128ATI100-10N	EPM3128ATI100-10N	TQFP-100	8	128	-10	80	10	3.3	-40 to 100	11.75
989-EPM3256AQC208-10N	EPM3256AQC208-10N	PQFP-208	16	256	-10	158	10	3.3	0 to 85	20.00
989-EPM3256ATC144-7N	EPM3256ATC144-7N	TQFP-144	16	256	-7	116	7.5	3.3	0 to 85	22.75
989-EPM3256ATC144-10N	EPM3256ATC144-10N	TQFP-144	16	256	-10	116	10	3.3	0 to 85	19.25
989-EPM3512AQI208-10N	EPM3512AQI208-10N	PQFP-208	32	512	-10	172	7.5	3.3	-40 to 85	55.50

MAX 7000

989-EPM7032AELC44-10N	EPM7032AELC44-10N	PLCC-44	2	32	-10	36	4.5	3.3	0 to 70	2.10
989-EPM7032AETI44-7N	EPM7032AETI44-7N	TQFP-44	2	32	-7	36	4.5	3.3	-40 to 85	3.95
989-EPM7064SLC84-10N	EPM7064SLC84-10N	PLCC-84	4	64	-10	68	4.5	3.3	0 to 70	15.25
989-EPM7064SLI44-7N	EPM7064SLI44-7N	PLCC-44	4	64	-7	36	4.5	3.3	-40 to 85	24.00
989-EPM7064STI44-7N	EPM7064STI44-7N	TQFP-44	4	64	-7	36	4.5	3.3	-40 to 85	32.50
989-EPM7128SLI84-10N	EPM7128SLI84-10N	PLCC-84	8	128	-10	68	5	3.3	-40 to 85	39.50
989-EPM7128SQC100-10N	EPM7128SQC100-10N	FBGA-100	8	128	-10	84	5	3.3	0 to 70	40.50
989-EPM7128STC100-10N	EPM7128STC100-10N	TQFP-100	8	128	-10	84	5	3.3	0 to 70	44.00
989-EPM7160SLC84-10N	EPM7160SLC84-10N	PLCC-84	10	160	-10	84	6	5	0 to 70	48.00
989-EPM7160STC100-10N	EPM7160STC100-10N	TQFP-100	10	160	-10	84	6	5	0 to 70	52.50
989-EPM7160STH100-10N	EPM7160STH100-10N	TQFP-100	10	160	-10	84	6	5	-40 to 85	68.00
989-EPM7256AETC144-7N	EPM7256AETC144-7N	TQFP-44	16	256	-7	36	5.5	3.3	0 to 70	87.00
989-EPM7256SQC208-15N	EPM7256SQC208-15N	PQFP-208	16	256	-15	164	5.5	3.3	0 to 70	70.00
989-EPM7256SRI208-10N	EPM7256SRI208-10N	PQFP-208	16	256	-10	164	5.5	3.3	-40 to 85	187.00
989-M7128AETC100-10N	EPM7128AETC100-10N	TQFP-100	8	128	-10	84	5	3.3	0 to 70	16.75
989-M7128AETC144-10N	EPM7128AETC144-10N	TQFP-44	8	128	-10	36	5	3.3	0 to 70	29.50
989-M7256AETC100-10N	EPM7256AETC100-10N	TQFP-100	16	256	-10	84	5.5	3.3	0 to 70	48.50

STRATIX FPGAS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Altera Part No.	Package	Logic Elements	No. of LABs/CLBs	No. of Logic Elements/Cells	Memory Size (Kb)	No. of I/Os	Supply Voltage (V)	Temperature Range (°C)	Price Each
Stratix										
989-EP1S10F780C7N	EP1S10F780C7N	FBGA-780	1057	1057	10570	920	426	1.5 to 3.3	0 to 70	225.00
Stratix II										
989-EP2S30F672C4N	EP2S30F672C4N	FBGA-672	1694	1694	33880	1468	500	1.15 to 1.25	0 to 85	560.00
989-EP2S30F672C5N	EP2S30F672C5N	FBGA-672	1694	1694	33880	1468	500	1.15 to 1.25	0 to 85	450.00
989-EP2S60F1020C3N	EP2S60F1020C3N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	0 to 85	1440.00
989-EP2S60F1020C4N	EP2S60F1020C4N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	0 to 85	1125.00
989-EP2S60F1020C5N	EP2S60F1020C5N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	0 to 85	900.00
989-EP2S60F1020I4N	EP2S60F1020I4N	FBGA-1020	3022	3022						