

ALTERA FPGAs and CPLDs



now part of Intel

Altera Programmable Logic

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	Max. Delay Time tpdf (1) (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

For quantities greater than listed, call for quote.

989-EPM3032ATC44-10N	EPM3032ATC44-10N	TQFP-44	2	32	-10	34	10	3.3	0 to 85	1.61
989-EPM3032ATC44-4N	EPM3032ATC44-4N	TQFP-44	2	32	-4	34	4.5	3.3	0 to 85	2.76
989-EPM3032ATI44-10N	EPM3032ATI44-10N	TQFP-44	2	32	-10	34	10	3.3	-40 to 100	1.66
989-EPM3064ALC44-10N	EPM3064ALC44-10N	PLCC-44	4	64	-10	34	10	3.3	0 to 85	2.41
989-EPM3064ATC100-4N	EPM3064ATC100-4N	TQFP-100	4	64	-4	66	4.5	3.3	0 to 70	6.78
989-EPM3064ATC100-7N	EPM3064ATC100-7N	TQFP-100	4	64	-7	66	4.5	3.3	0 to 70	4.31
989-EPM3064ATC100I10N	EPM3064ATC100I10N	TQFP-100	4	64	-10	66	10	3.3	0 to 85	3.56
989-EPM3064ATC44-10N	EPM3064ATC44-10N	TQFP-44	4	64	-10	34	10	3.3	0 to 85	2.93
989-EPM3064ATC44-4N	EPM3064ATC44-4N	TQFP-44	4	64	-4	34	4.5	3.3	0 to 85	6.15
989-EPM3064ATC44-7N	EPM3064ATC44-7N	TQFP-44	4	64	-7	34	4.5	3.3	0 to 70	3.33
989-EPM3064ATI100I10N	EPM3064ATI100I10N	TQFP-100	4	64	-10	66	10	3.3	-40 to 100	4.31
989-EPM3064ATI44-10N	EPM3064ATI44-10N	TQFP-44	4	64	-10	34	10	3.3	-40 to 100	3.33
989-EPM3128ATC100-5N	EPM3128ATC100-5N	TQFP-100	8	128	-5	80	5	3.3	0 to 85	21.56
989-EPM3128ATC100-7N	EPM3128ATC100-7N	TQFP-100	8	128	-7	80	7.5	3.3	0 to 85	13.51
989-EPM3128ATC100I10N	EPM3128ATC100I10N	TQFP-100	8	128	-10	80	10	3.3	0 to 85	9.89
989-EPM3128ATC144-5N	EPM3128ATC144-5N	TQFP-144	8	128	-5	96	5	3.3	0 to 85	23.00
989-EPM3128ATC144I10N	EPM3128ATC144I10N	TQFP-144	8	128	-10	96	5	3.3	0 to 70	10.58
989-EPM3128ATI100I10N	EPM3128ATI100I10N	TQFP-100	8	128	-10	80	10	3.3	-40 to 100	13.51
989-EPM3256AQC208I10N	EPM3256AQC208I10N	PQFP-208	16	256	-10	158	10	3.3	0 to 85	23.00
989-EPM3256ATC144-7N	EPM3256ATC144-7N	TQFP-144	16	256	-7	116	7.5	3.3	0 to 85	26.16
989-EPM3256ATC144I10N	EPM3256ATC144I10N	TQFP-144	16	256	-10	116	10	3.3	0 to 85	22.13
989-EPM3512AQI208I10N	EPM3512AQI208I10N	PQFP-208	32	512	-10	172	7.5	3.3	-40 to 85	63.82

MAX 7000

For quantities greater than listed, call for quote.

989-EPM7032AELC44I10N	EPM7032AELC44-10N	PLCC-44	2	32	-10	36	4.5	3.3	0 to 70	2.41
989-EPM7032AETI44-7N	EPM7032AETI44-7N	TQFP-44	2	32	-7	36	4.5	3.3	-40 to 85	4.54
989-EPM7064SLC84-10N	EPM7064SLC84-10N	PLCC-84	4	64	-10	68	4.5	3.3	0 to 70	17.53
989-EPM7064SLI44-7N	EPM7064SLI44-7N	PLCC-44	4	64	-7	36	4.5	3.3	-40 to 85	27.60
989-EPM7064STI44-7N	EPM7064STI44-7N	TQFP-44	4	64	-7	36	4.5	3.3	-40 to 85	37.37
989-EPM7128SLI84-10N	EPM7128SLI84-10N	PLCC-84	8	128	-10	68	5	3.3	-40 to 85	45.42
989-EPM7128SQC100I10N	EPM7128SQC100-10N	FBGA-100	8	128	-10	84	5	3.3	0 to 70	46.57
989-EPM7128STC100I10N	EPM7128STC100-10N	TQFP-100	8	128	-10	84	5	3.3	0 to 70	50.60
989-EPM7160SLC84-10N	EPM7160SLC84-10N	PLCC-84	10	160	-10	64	6	5	0 to 70	55.20
989-EPM7160STC100I10N	EPM7160STC100-10N	TQFP-100	10	160	-10	84	6	5	0 to 70	60.37
989-EPM7160STI100I10N	EPM7160STI100-10N	TQFP-100	10	160	-10	84	6	5	-40 to 85	78.20
989-EPM7256AETC1447N	EPM7256AETC144-7N	TQFP-144	16	256	-7	36	5.5	3.3	0 to 70	100.05
989-EPM7256SQC208I5N	EPM7256SQC208-15N	PQFP-208	16	256	-15	164	5.5	3.3	0 to 70	80.50
989-EPM7256SRI208I10N	EPM7256SRI208-10N	PQFP-208	16	256	-10	164	5.5	3.3	-40 to 85	215.05
989-M7128AETC100I10N	EPM7128AETC100-10N	TQFP-100	8	128	-10	84	5	3.3	0 to 70	19.26
989-M7128AETC144I10N	EPM7128AETC144-10N	TQFP-144	8	128	-10	36	5	3.3	0 to 70	33.92
989-M7256AETC100I10N	EPM7256AETC100-10N	TQFP-100	16	256	-10	84	5.5	3.3	0 to 70	55.77

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 II										
989-EP2S30F672C4N	EP2S30F672C4N	FBGA-672	1694	1694	33880	1468	500	1.15 to 1.25	0 to 85	644.00
989-EP2S60F1020C3N	EP2S60F1020C3N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	0 to 85	1656.00
989-EP2S60F1020C4N	EP2S60F1020C4N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	0 to 85	1293.75
989-EP2S60F1020C5N	EP2S60F1020C5N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	0 to 85	1035.00
989-EP2S60F1020I4N	EP2S60F1020I4N	FBGA-1020	3022	3022	60440	2621	718	1.15 to 1.25	-40 to 100	1656.00
Stratix V GX										
989-SSGXEATK2F40C2N	SSGXEATK2F40C2N	FBGA-1517	2560	234720	622000	52428	696	0.87 to 0.93	0 to 85	8317.00