

# LATTICE Programmable Logic Devices

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## LATTICE COMPLEX PROGRAMMABLE LOGIC DEVICES (CPLDs)



RoHS Compliant

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Lattice Part No.	Package	Voltage (V)	Tpd (ns)	I/O	Macro Cells	Price Each		
							1	25	100
842-4032ZC75TN48C	LC4032ZC-75TN48C	TQFP-48	1.8	7.5	48	32	1.65	1.47	1.42
842-4064V75TN100C	LC4064V-75TN100C	TQFP-100	3.3	7.5	100	64	4.04	3.60	3.48
842-4064ZC75TN48C	LC4064ZC-75TN48C	TQFP-48	1.8	7.5	48	64	3.22	2.87	2.77
842-4128V10TN144I	LC4128V-10TN144I	TQFP-144	3.3	10.00	144	128	12.05	10.73	10.37
842-4128V27TN100C	LC4128V-27TN100C	TQFP-100	3.3	7.5	100	128	27.47	24.48	23.64
842-4128V75TN100C	LC4128V-75TN100C	TQFP-100	3.3	7.5	100	128	11.30	10.07	9.73
842-4128V75TN128C	LC4128V-75TN128C	TQFP-128	3.3	7.5	128	128	11.96	10.66	10.30
842-4128V75TN144C	LC4128V-75TN144C	TQFP-144	3.3	7.5	144	128	12.05	10.73	10.37
842-4128ZC42T100C	LC4128ZC-42T100C	TQFP-100	1.8	4.2	100	128	18.98	16.91	16.33
842-4128ZC42TN100C	LC4128ZC-42TN100C	TQFP-100	1.8	4.2	100	128	18.98	16.91	16.33
842-4128ZC75TN100C	LC4128ZC-75TN100C	TQFP-100	1.8	7.5	100	128	8.17	7.28	7.03
842-4256V10TN176I	LC4256V-10TN176I	TQFP-176	3.3	10.00	176	256	23.51	20.95	20.24
842-4256V75FN256BC	LC4256V-75FN256BC	fpBGA-256	3.3	7.5	256	256	28.79	25.65	24.78
842-4256V75TN100C	LC4256V-75TN100C	TQFP-100	3.3	7.5	100	256	22.44	19.99	19.31
842-4256V75TN100I	LC4256V-75TN100I	TQFP-100	3.3	7.5	100	256	32.18	28.67	27.69
842-4256V75TN144C	LC4256V-75TN144C	TQFP-144	3.3	7.5	144	256	23.18	20.65	19.95
842-4256V75TN176C	LC4256V-75TN176C	TQFP-176	3.3	7.5	176	256	23.51	20.95	20.24
842-4256ZC75TN100C	LC4256ZC-75TN100C	TQFP-100	1.8	7.5	100	256	15.76	14.04	13.56
842-4256ZC75TN176C	LC4256ZC-75TN176C	TQFP-176	1.8	7.5	176	256	17.41	15.51	14.98
842-4384B35FN256C	LC4384B-35FN256C	fpBGA-256	2.5	3.5	256	384	93.23	83.06	80.23
842-4384V75TN176C	LC4384V-75TN176C	TQFP-176	3.3	7.5	176	384	45.46	40.50	39.12
842-4512V75TN176C	LC4512V-75TN176C	TQFP-176	3.3	7.5	176	512	67.32	59.98	57.94
842-5512MV75QN208C	LC5512MV-75QN208C	PQFP-208	3.3	7.5	208	512	31.76	28.30	27.34
842-5768MV75FN256C	LC5768MV-75FN256C	fpBGA-256	3.3	7.5	256	768	50.16	44.75	43.17
842-5768MV75FN484C	LC5768MV-75FN484C	fpBGA-484	3.3	7.5	484	768	53.63	47.78	46.15
842-LC4032V25TN48C	LC4032V-25TN48C	TQFP-44	3.3	2.5	48	32	4.37	3.90	3.76
842-LC4032V-5TN44C	LC4032V-5TN44C	TQFP-44	3.3	5.0	44	32	2.89	2.57	2.49
842-LC4032V75TN44C	LC4032V-75TN44C	TQFP-44	3.3	7.5	44	32	1.65	1.47	1.42
842-LC4032V75TN48C	LC4032V-75TN48C	TQFP-48	3.3	7.5	48	32	2.06	1.84	1.78
842-LC4064C-25T48C	LC4064C-25T48C	TQFP-48	1.8	2.5	48	64	9.65	8.60	8.31
842-LC4064V10TN48I	LC4064V-10TN48I	TQFP-48	3.3	10.00	48	64	3.71	3.31	3.20
842-LC4064V25TN44C	LC4064V-25TN44C	TQFP-44	3.3	2.5	44	64	9.32	8.31	8.02
842-LC4064V25TN48C	LC4064V-25TN48C	TQFP-48	3.3	2.5	48	64	9.65	8.60	8.31
842-LC4064V-5TN44C	LC4064V-5TN44C	TQFP-44	3.3	5	44	64	6.68	5.95	5.75
842-LC4064V-5TN48C	LC4064V-5TN48C	TQFP-48	3.3	5	48	64	7.01	6.25	6.04
842-LC4064V-5TN48I	LC4064V-5TN48I	TQFP-48	3.3	5.0	48	64	9.65	8.60	8.31
842-LC4064V75TN44C	LC4064V-75TN44C	TQFP-44	3.3	7.5	44	64	3.38	3.01	2.91
842-LC4064V75TN48C	LC4064V-75TN48C	TQFP-48	3.3	7.5	48	64	3.71	3.31	3.20
842-LC4064V75TN48E	LC4064V-75TN48E	TQFP-48	3.3	7.5	48	64	7.76	6.91	6.67
842-LC4064ZC37M56C	LC4064ZC-37M56C	TQFP-56	1.8	3.7	56	64	7.18	6.39	6.18
842-LC4064ZC5TN48C	LC4064ZC-5TN48C	TQFP-48	1.8	5.0	48	64	4.54	4.04	3.91
842-LC4128V5TN100C	LC4128V-5TN100C	TQFP-100	3.3	5.0	100	128	19.64	17.49	16.90
842-LC4256B-3T176C	LC4256B-3T176C	TQFP-176	2.5	3.0	176	256	46.45	41.38	39.97
842-LC4256C75FT256BI	LC4256C-75FT256BI	fpBGA-256	1.8	7.5	256	256	38.53	34.32	32.92
842-LC4256V3TN100C	LC4256V-3TN100C	TQFP-100	3.3	3.0	100	256	45.38	40.43	39.05
842-LC4256V3TN144C	LC4256V-3TN144C	TQFP-144	3.3	7.5	144	256	46.04	41.01	39.62
842-LC4256V75F256BC	LC4256V-75F256BC	fpBGA-256	3.3	7.5	256	256	28.79	25.65	24.78
842-LC4256V75T100C	LC4256V-75T100C	TQFP-100	3.3	7.5	100	256	22.44	19.99	19.31
842-LC4384B35T176C	LC4384B-35T176C	TQFP-176	2.5	3.5	176	384	91.99	81.95	79.17
842-LC4384V75F256C	LC4384V-75F256C	fpBGA-256	3.3	7.5	256	384	48.02	42.78	41.32
842-LC4384V75T176C	LC4384V-75T176C	TQFP-176	3.3	7.5	176	384	45.46	40.50	39.12
842-LC4512V35F256C	LC4512V-35F256C	fpBGA-256	3.3	3.5	256	512	137.36	122.38	118.22
842-LC4512V5FT256I	LC4512V-5FT256I	fpBGA-256	3.3	5.0	256	512	137.36	122.38	117.38
842-LC4512V75T176C	LC4512V-75T176C	TQFP-176	3.3	7.5	176	512	67.32	59.98	57.94
842-LC5256MV5F256I	LC5256MV-5F256I	fpBGA-256	3.3	5.0	256	256	25.58	22.79	22.01

## LATTICE POWER MANAGER PACPOWR CPLD DEVICES

Power Management solutions from Lattice deliver highly accurate, flexible, and low cost solutions for power supply and processor/DSP management. By integrating a versatile PLD core with Analog-to-Digital (ADC) converter, Digital-to-Analog Converters (DAC), differential sense analog monitors, I2C communication, and in-system programmability (isp), Lattice power management devices increase board reliability, decrease component count, and help cut costs. Three power management families: ProcessorPM, Power Manager II, and Power Manager address a variety of applications – all in a single low-cost chip.



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The new Power Manager II device ispPAC-POWR607 includes a power-down feature, which is ideal for applications with very low standby power requirements. The device can either be powered down using an external logic signal or by an internally generated signal. Once in the powered down state the device draws less than 10µA from the power supply.

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Lattice Part No.	Package	Voltage (V)	Programmable Timers	I/O	Macro Cells	Temperature	Price Each		
								I/O	1	25
842-POWR605-01SN24I	ispPAC-POWR605-01SN24I	QFN 24-PIN	6 Supply Rails	4	7	16	-40°C to +85°C	3.05	2.75	2.29
842-POW120801TN44I	ispPAC-POWR1208-01TN44I	TQFP-44	5	4	4	16	-40°C to +85°C	10.81	9.63	9.30
842-POWR1220AT8-01TN	ispPAC-POWR1220AT8-01TN100I	TQFP-100	12 Supply Rails	8	4	48	-40°C to +85°C	12.54	11.17	10.79
842-POWR1014A01TN48I	ispPAC-POWR1014A-01TN48I	TQFP-48	5	4	4	16	-40°C to +85°C	6.93	6.17	5.96
842-P1208P101TN44I	ispPAC-POWR1208P1-01TN44I	TQFP-44	5	4	4	16	-40°C to +85°C	15.18	13.52	13.06
842-ISPACPR1208P11T	ispPAC-POWR1208P1-01T44I	TGFP-44	5	4	4	16	-40°C To 85°C	15.18	13.52	13.06
842-ACPPOWR60701NN32I	ispPAC-POWR607-01NN32I	QFN-32	6	4	7	16	-40°C to +85°C	3.22	2.87	2.77

## LATTICE HIGH DENSITY PROGRAMMABLE LOGIC

The ispLSI 1032E is a High Density Programmable Logic Device containing 192 Registers, 64 Universal I/O pins, eight Dedicated Input pins, four Dedicated Clock Input pins and a Global Routing Pool (GRP).



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MOUSER STOCK NO.	Lattice Part No.	Package	Speed (fmax) (MHz)	Tpd (ns)	Power	Grade	Price Each		
							1	25	100
842-SPLSI1032E100LJN	ispLSI 1032E-100LJN	PLCC 84	100	10	Low	Industrial	24.34	21.75	20.95

## LATTICE COMPLEX PROGRAMMABLE LOGIC DEVICES (CPLDs) EVALUATION BOARDS

MOUSER STOCK NO.	Lattice Part No.	Description	Price Each
842-PACPOWR607EV 842-LFXP10C-L-EV	PAC-POWR607-EV LFXP10C-L-EV	Evaluation Board for PACPOWR605 Evaluation Board for ispXLPD XP10C	120.00 253.50

