



Lattice Pb-Free Ordering Part Number List



GAL/ispGAL Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade
GAL16LV8	3.3V	GAL16LV8D-3LJ	GAL16LV8D-3LJN	3.5	Lead-Free 20-Lead PLCC	Commercial
		GAL16LV8D-5LJ	GAL16LV8D-5LJN	5.0	Lead-Free 20-Lead PLCC	
		GAL16LV8C-7LJ	GAL16LV8C-7LJN	7.5	Lead-Free 20-Lead PLCC	
		GAL16LV8C-10LJ	GAL16LV8C-10LJN	10	Lead-Free 20-Lead PLCC	
		GAL16LV8C-15LJ	GAL16LV8C-15LJN	15	Lead-Free 20-Lead PLCC	
GAL16V8	5V	GAL16V8D-3LJ	GAL16V8D-3LJN	3.5	Lead-Free 20-Lead PLCC	Commercial
		GAL16V8D-5LJ	GAL16V8D-5LJN	5.0	Lead-Free 20-Lead PLCC	
		GAL16V8D-7LP	GAL16V8D-7LPN	7.5	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-7LJ	GAL16V8D-7LJN	7.5	Lead-Free 20-Lead PLCC	
		GAL16V8D-10QP	GAL16V8D-10QPN	10	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-10QJ	GAL16V8D-10QJN	10	Lead-Free 20-Lead PLCC	
		GAL16V8D-10LP	GAL16V8D-10LPN	10	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-10LJ	GAL16V8D-10LJN	10	Lead-Free 20-Lead PLCC	
		GAL16V8D-15QP	GAL16V8D-15QPN	15	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-15QJ	GAL16V8D-15QJN	15	Lead-Free 20-Lead PLCC	
		GAL16V8D-15LP	GAL16V8D-15LPN	15	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-15LJ	GAL16V8D-15LJN	15	Lead-Free 20-Lead PLCC	
		GAL16V8D-25QP	GAL16V8D-25QPN	25	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-25QJ	GAL16V8D-25QJN	25	Lead-Free 20-Lead PLCC	
		GAL16V8D-25LP	GAL16V8D-25LPN	25	Lead-Free 20-Pin Plastic DIP	
		GAL16V8D-25LJ	GAL16V8D-25LJN	25	Lead-Free 20-Lead PLCC	
GAL22V10	5V	GAL22V10D-4LJ	GAL22V10D-4LJN	4.0	Lead-Free 28-Lead PLCC	Commercial
		GAL22V10D-5LJ	GAL22V10D-5LJN	5.0	Lead-Free 28-Lead PLCC	
		GAL22V10D-7LP	GAL22V10D-7LPN	7.5	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-7LJ	GAL22V10D-7LJN	7.5	Lead-Free 28-Lead PLCC	
		GAL22V10D-10QP	GAL22V10D-10QPN	10	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-10QJ	GAL22V10D-10QJN	10	Lead-Free 28-Lead PLCC	
		GAL22V10D-10LP	GAL22V10D-10LPN	10	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-10LJ	GAL22V10D-10LJN	10	Lead-Free 28-Lead PLCC	
		GAL22V10D-15QP	GAL22V10D-15QPN	15	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-15QJ	GAL22V10D-15QJN	15	Lead-Free 28-Lead PLCC	
		GAL22V10D-15LP	GAL22V10D-15LPN	15	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-15LJ	GAL22V10D-15LJN	15	Lead-Free 28-Lead PLCC	
		GAL22V10D-25QP	GAL22V10D-25QPN	25	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-25QJ	GAL22V10D-25QJN	25	Lead-Free 28-Lead PLCC	
		GAL22V10D-25LP	GAL22V10D-25LPN	25	Lead-Free 24-Pin Plastic DIP	
		GAL22V10D-25LJ	GAL22V10D-25LJN	25	Lead-Free 28-Lead PLCC	
ispGAL22V10	5V	ispGAL22V10C-7LJ	ispGAL22V10C-7LJN	7.5	Lead-Free 28-Lead PLCC	Commercial
		ispGAL22V10C-10LJ	ispGAL22V10C-10LJN	10	Lead-Free 28-Lead PLCC	
		ispGAL22V10C-15LJ	ispGAL22V10C-15LJN	15	Lead-Free 28-Lead PLCC	
ispGAL22V10AV	3.3V	ispGAL22V10AV-23LN	ispGAL22V10AV-23LNN	2.3	Lead-Free 32-Pin QFN	Commercial
		ispGAL22V10AV-5LN	ispGAL22V10AV-5LNN	5.0	Lead-Free 32-Pin QFN	
		ispGAL22V10AV-75LN	ispGAL22V10AV-75LNN	7.5	Lead-Free 32-Pin QFN	Industrial
		ispGAL22V10AV-5LNI	ispGAL22V10AV-5LNNI	5.0	Lead-Free 32-Pin QFN	
		ispGAL22V10AV-75LNI	ispGAL22V10AV-75LNNI	7.5	Lead-Free 32-Pin QFN	

ispLSI 2000VE Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade		
ispLSI 2032VE	3.3V	ispLSI 2032VE-300LT44	ispLSI 2032VE-300LTN44	300	Lead-Free 44-Pin TQFP	Commercial		
		ispLSI 2032VE-180LT44	ispLSI 2032VE-180LTN44	180	Lead-Free 44-Pin TQFP			
		ispLSI 2032VE-135LT44	ispLSI 2032VE-135LTN44	135	Lead-Free 44-Pin TQFP			
		ispLSI 2032VE-110LT44	ispLSI 2032VE-110LTN44	110	Lead-Free 44-Pin TQFP			
		ispLSI 2032VE-180LT44I	ispLSI 2032VE-180LTN44I	180	Lead-Free 44-Pin TQFP	Industrial		
ispLSI 2064VE	3.3V	ispLSI 2064VE-280LT100	ispLSI 2064VE-280LTN100	280	Lead-Free 100-Pin TQFP	Commercial		
		ispLSI 2064VE-280LT44	ispLSI 2064VE-280LTN44	280	Lead-Free 44-Pin TQFP			
		ispLSI 2064VE-200LT100	ispLSI 2064VE-200LTN100	200	Lead-Free 100-Pin TQFP			
		ispLSI 2064VE-200LT44	ispLSI 2064VE-200LTN44	200	Lead-Free 44-Pin TQFP			
		ispLSI 2064VE-135LT100	ispLSI 2064VE-135LTN100	135	Lead-Free 100-Pin TQFP			
		ispLSI 2064VE-135LT44	ispLSI 2064VE-135LTN44	135	Lead-Free 44-Pin TQFP			
		ispLSI 2064VE-100LT100	ispLSI 2064VE-100LTN100	100	Lead-Free 100-Pin TQFP			
		ispLSI 2064VE-100LT44	ispLSI 2064VE-100LTN44	100	Lead-Free 44-Pin TQFP			
		ispLSI 2064VE-135LT100I	ispLSI 2064VE-135LTN100I	135	Lead-Free 100-Pin TQFP	Industrial		
		ispLSI 2064VE-135LT44I	ispLSI 2064VE-135LTN44I	135	Lead-Free 44-Pin TQFP			
		ispLSI 2096VE-250LT128	ispLSI 2096VE-250LTN128	250	Lead-Free 128-Pin TQFP			
ispLSI 2096VE	3.3V	ispLSI 2096VE-135LT128	ispLSI 2096VE-135LTN128	135	Lead-Free 128-Pin TQFP	Commercial		
		ispLSI 2096VE-100LT128	ispLSI 2096VE-100LTN128	100	Lead-Free 128-Pin TQFP	Industrial		
		ispLSI 2096VE-135LT128I	ispLSI 2096VE-135LTN128I	135	Lead-Free 128-Pin TQFP			
		ispLSI 2128VE-250LT176	ispLSI 2128VE-250LTN176	250	Lead-Free 176-Pin TQFP			
		ispLSI 2128VE-250LB208	ispLSI 2128VE-250LBN208	250	Lead-Free 208-Ball fpBGA			
ispLSI 2128VE	3.3V	ispLSI 2128VE-250LT100	ispLSI 2128VE-250LTN100	250	Lead-Free 100-Pin TQFP	Commercial		
		ispLSI 2128VE-135LT176	ispLSI 2128VE-135LTN176	135	Lead-Free 176-Pin TQFP			
		ispLSI 2128VE-135LB208	ispLSI 2128VE-135LBN208	135	Lead-Free 208-Ball fpBGA			
		ispLSI 2128VE-135LT100	ispLSI 2128VE-135LTN100	135	Lead-Free 100-Pin TQFP			
		ispLSI 2128VE-100LT176	ispLSI 2128VE-100LTN176	100	Lead-Free 176-Pin TQFP			
		ispLSI 2128VE-100LB208	ispLSI 2128VE-100LBN208	100	Lead-Free 208-Ball fpBGA			
		ispLSI 2128VE-100LT100	ispLSI 2128VE-100LTN100	100	Lead-Free 100-Pin TQFP			
		ispLSI 2128VE-135LT176I	ispLSI 2128VE-135LTN176I	135	Lead-Free 176-Pin TQFP		Industrial	
		ispLSI 2128VE-135LT100I	ispLSI 2128VE-135LTN100I	135	Lead-Free 100-Pin TQFP			
		ispLSI 2192VE-225LT128	ispLSI 2192VE-225LTN128	225	Lead-Free 128-Pin TQFP			
		ispLSI 2192VE	3.3V	ispLSI 2192VE-135LT128	ispLSI 2192VE-135LTN128	135	Lead-Free 128-Pin TQFP	Commercial
				ispLSI 2192VE-100LT128	ispLSI 2192VE-100LTN128	100	Lead-Free 128-Pin TQFP	Industrial
				ispLSI 2192VE-180LT128I	ispLSI 2192VE-180LTN128I	180	Lead-Free 128-Pin TQFP	

M4A3 Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
M4A3-32	3.3V	M4A3-32/32-5VC	M4A3-32/32-5VNC	5.0	Lead-Free 44-Pin TQFP	Commercial
		M4A3-32/32-5VC48	M4A3-32/32-5VNC48	5.0	Lead-Free 48-Pin TQFP	
		M4A3-32/32-7VC	M4A3-32/32-7VNC	7.5	Lead-Free 44-Pin TQFP	
		M4A3-32/32-7VC48	M4A3-32/32-7VNC48	7.5	Lead-Free 48-Pin TQFP	
		M4A3-32/32-10VC	M4A3-32/32-10VNC	10	Lead-Free 44-Pin TQFP	
		M4A3-32/32-10VC48	M4A3-32/32-10VNC48	10	Lead-Free 48-Pin TQFP	
		M4A3-32/32-7VI	M4A3-32/32-7VNI	7.5	Lead-Free 44-Pin TQFP	Industrial
		M4A3-32/32-7VI48	M4A3-32/32-7VNI48	7.5	Lead-Free 48-Pin TQFP	
		M4A3-32/32-10VI	M4A3-32/32-10VNI	10	Lead-Free 44-Pin TQFP	
		M4A3-32/32-10VI48	M4A3-32/32-10VNI48	10	Lead-Free 48-Pin TQFP	
		M4A3-32/32-12VI	M4A3-32/32-12VNI	12	Lead-Free 44-Pin TQFP	
		M4A3-32/32-12VI48	M4A3-32/32-12VNI48	12	Lead-Free 48-Pin TQFP	
M4A3-64	3.3V	M4A3-64/32-55VC	M4A3-64/32-55VNC	5.5	Lead-Free 44-Pin TQFP	Commercial
		M4A3-64/32-55VC48	M4A3-64/32-55VNC48	5.5	Lead-Free 48-Pin TQFP	
		M4A3-64/64-55VC	M4A3-64/64-55VNC	5.5	Lead-Free 100-Pin TQFP	
		M4A3-64/32-7VC	M4A3-64/32-7VNC	7.5	Lead-Free 44-Pin TQFP	
		M4A3-64/32-7VC48	M4A3-64/32-7VNC48	7.5	Lead-Free 48-Pin TQFP	
		M4A3-64/64-7VC	M4A3-64/64-7VNC	7.5	Lead-Free 100-Pin TQFP	
		M4A3-64/32-10VC	M4A3-64/32-10VNC	10	Lead-Free 44-Pin TQFP	Industrial
		M4A3-64/32-10VC48	M4A3-64/32-10VNC48	10	Lead-Free 48-Pin TQFP	
		M4A3-64/64-10VC	M4A3-64/64-10VNC	10	Lead-Free 100-Pin TQFP	
		M4A3-64/32-7VI	M4A3-64/32-7VNI	7.5	Lead-Free 44-Pin TQFP	
		M4A3-64/32-7VI48	M4A3-64/32-7VNI48	7.5	Lead-Free 48-Pin TQFP	
		M4A3-64/64-7VI	M4A3-64/64-7VNI	7.5	Lead-Free 100-Pin TQFP	
		M4A3-64/32-10VI	M4A3-64/32-10VNI	10	Lead-Free 44-Pin TQFP	
		M4A3-64/32-10VI48	M4A3-64/32-10VNI48	10	Lead-Free 48-Pin TQFP	
		M4A3-64/64-10VI	M4A3-64/64-10VNI	10	Lead-Free 100-Pin TQFP	
		M4A3-64/32-12VI	M4A3-64/32-12VNI	12	Lead-Free 44-Pin TQFP	
		M4A3-64/32-12VI48	M4A3-64/32-12VNI48	12	Lead-Free 48-Pin TQFP	
		M4A3-64/64-12VI	M4A3-64/64-12VNI	12	Lead-Free 100-Pin TQFP	
M4A3-128	3.3V	M4A3-128/64-55VC	M4A3-128/64-55VNC	5.5	Lead-Free 100-Pin TQFP	Commercial
		M4A3-128/64-7VC	M4A3-128/64-7VNC	7.5	Lead-Free 100-Pin TQFP	
		M4A3-128/64-10VC	M4A3-128/64-10VNC	10	Lead-Free 100-Pin TQFP	
		M4A3-128/64-7VI	M4A3-128/64-7VNI	7.5	Lead-Free 100-Pin TQFP	Industrial
		M4A3-128/64-10VI	M4A3-128/64-10VNI	10	Lead-Free 100-Pin TQFP	
		M4A3-128/64-12VI	M4A3-128/64-12VNI	12	Lead-Free 100-Pin TQFP	
M4A3-192	3.3V	M4A3-192/96-6VC	M4A3-192/96-6VNC	6.0	Lead-Free 144-Pin TQFP	Commercial
		M4A3-192/96-7VC	M4A3-192/96-7VNC	7.5	Lead-Free 144-Pin TQFP	
		M4A3-192/96-10VC	M4A3-192/96-10VNC	10	Lead-Free 144-Pin TQFP	
		M4A3-192/96-7VI	M4A3-192/96-7VNI	7.5	Lead-Free 144-Pin TQFP	Industrial
		M4A3-192/96-10VI	M4A3-192/96-10VNI	10	Lead-Free 144-Pin TQFP	
		M4A3-192/96-12VI	M4A3-192/96-12VNI	12	Lead-Free 144-Pin TQFP	
M4A3-256	3.3V	M4A3-256/128-55FAC	M4A3-256/128-55FANC	5.5	Lead-Free 256-Ball fpBGA	Commercial
		M4A3-256/128-7FAC	M4A3-256/128-7FANC	7.5	Lead-Free 256-Ball fpBGA	
		M4A3-256/192-7FAC	M4A3-256/192-7FANC	7.5	Lead-Free 256-Ball fpBGA	
		M4A3-256/128-10FAC	M4A3-256/128-10FANC	10	Lead-Free 256-Ball fpBGA	
		M4A3-256/192-10FAC	M4A3-256/192-10FANC	10	Lead-Free 256-Ball fpBGA	
		M4A3-256/128-7FAI	M4A3-256/128-7FANI	7.5	Lead-Free 256-Ball fpBGA	Industrial
		M4A3-256/128-10FAI	M4A3-256/128-10FANI	10	Lead-Free 256-Ball fpBGA	
		M4A3-256/192-10FAI	M4A3-256/192-10FANI	10	Lead-Free 256-Ball fpBGA	
		M4A3-256/128-12FAI	M4A3-256/128-12FANI	12	Lead-Free 256-Ball fpBGA	
		M4A3-256/192-12FAI	M4A3-256/192-12FANI	12	Lead-Free 256-Ball fpBGA	
M4A3-384	3.3V	M4A3-384/192-65FAC	M4A3-384/192-65FANC	6.5	Lead-Free 256-Ball fpBGA	Commercial
		M4A3-384/192-10FAC	M4A3-384/192-10FANC	10	Lead-Free 256-Ball fpBGA	
		M4A3-384/192-12FAC	M4A3-384/192-12FANC	12	Lead-Free 256-Ball fpBGA	
		M4A3-384/192-10FAI	M4A3-384/192-10FANI	10	Lead-Free 256-Ball fpBGA	Industrial
		M4A3-384/192-12FAI	M4A3-384/192-12FANI	12	Lead-Free 256-Ball fpBGA	
		M4A3-384/192-14FAI	M4A3-384/192-14FANI	14	Lead-Free 256-Ball fpBGA	
M4A3-512	3.3V	M4A3-512/192-7FAC	M4A3-512/192-7FANC	7.5	Lead-Free 256-Ball fpBGA	Commercial
		M4A3-512/192-10FAC	M4A3-512/192-10FANC	10	Lead-Free 256-Ball fpBGA	
		M4A3-512/192-12FAC	M4A3-512/192-12FANC	12	Lead-Free 256-Ball fpBGA	
		M4A3-512/192-10FAI	M4A3-512/192-10FANI	10	Lead-Free 256-Ball fpBGA	Industrial
		M4A3-512/192-12FAI	M4A3-512/192-12FANI	12	Lead-Free 256-Ball fpBGA	
		M4A3-512/192-14FAI	M4A3-512/192-14FANI	14	Lead-Free 256-Ball fpBGA	

M4A5 Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
M4A5-32	5V	M4A5-32/32-5VC	M4A5-32/32-5VNC	5.0	Lead-Free 44-Pin TQFP	Commercial
		M4A5-32/32-5VC48	M4A5-32/32-5VNC48	5.0	Lead-Free 48-Pin TQFP	
		M4A5-32/32-7VC	M4A5-32/32-7VNC	7.5	Lead-Free 44-Pin TQFP	
		M4A5-32/32-7VC48	M4A5-32/32-7VNC48	7.5	Lead-Free 48-Pin TQFP	
		M4A5-32/32-10VC	M4A5-32/32-10VNC	10	Lead-Free 44-Pin TQFP	
		M4A5-32/32-10VC48	M4A5-32/32-10VNC48	10	Lead-Free 48-Pin TQFP	
		M4A5-32/32-7VI	M4A5-32/32-7VNI	7.5	Lead-Free 44-Pin TQFP	Industrial
		M4A5-32/32-7VI48	M4A5-32/32-7VNI48	7.5	Lead-Free 48-Pin TQFP	
		M4A5-32/32-10VI	M4A5-32/32-10VNI	10	Lead-Free 44-Pin TQFP	
		M4A5-32/32-10VI48	M4A5-32/32-10VNI48	10	Lead-Free 48-Pin TQFP	
		M4A5-32/32-12VI	M4A5-32/32-12VNI	12	Lead-Free 44-Pin TQFP	
		M4A5-32/32-12VI48	M4A5-32/32-12VNI48	12	Lead-Free 48-Pin TQFP	
M4A5-64	5V	M4A5-64/32-55VC	M4A5-64/32-55VNC	5.5	Lead-Free 44-Pin TQFP	Commercial
		M4A5-64/32-55VC48	M4A5-64/32-55VNC48	5.5	Lead-Free 48-Pin TQFP	
		M4A5-64/32-7VC	M4A5-64/32-7VNC	7.5	Lead-Free 44-Pin TQFP	
		M4A5-64/32-7VC48	M4A5-64/32-7VNC48	7.5	Lead-Free 48-Pin TQFP	
		M4A5-64/32-10VC	M4A5-64/32-10VNC	10	Lead-Free 44-Pin TQFP	
		M4A5-64/32-10VC48	M4A5-64/32-10VNC48	10	Lead-Free 48-Pin TQFP	
		M4A5-64/32-7VI	M4A5-64/32-7VNI	7.5	Lead-Free 44-Pin TQFP	Industrial
		M4A5-64/32-7VI48	M4A5-64/32-7VNI48	7.5	Lead-Free 48-Pin TQFP	
		M4A5-64/32-10VI	M4A5-64/32-10VNI	10	Lead-Free 44-Pin TQFP	
		M4A5-64/32-10VI48	M4A5-64/32-10VNI48	10	Lead-Free 48-Pin TQFP	
		M4A5-64/32-12VI	M4A5-64/32-12VNI	12	Lead-Free 44-Pin TQFP	
		M4A5-64/32-12VI48	M4A5-64/32-12VNI48	12	Lead-Free 48-Pin TQFP	
M4A5-128	5V	M4A5-128/64-55VC	M4A5-128/64-55VNC	5.5	Lead-Free 100-Pin TQFP	Commercial
		M4A5-128/64-7VC	M4A5-128/64-7VNC	7.5	Lead-Free 100-Pin TQFP	
		M4A5-128/64-10VC	M4A5-128/64-10VNC	10	Lead-Free 100-Pin TQFP	
		M4A5-128/64-7VI	M4A5-128/64-7VNI	7.5	Lead-Free 100-Pin TQFP	Industrial
		M4A5-128/64-10VI	M4A5-128/64-10VNI	10	Lead-Free 100-Pin TQFP	
		M4A5-128/64-12VI	M4A5-128/64-12VNI	12	Lead-Free 100-Pin TQFP	
M4A5-192	5V	M4A5-192/96-6VC	M4A5-192/96-6VNC	6.0	Lead-Free 144-Pin TQFP	Commercial
		M4A5-192/96-7VC	M4A5-192/96-7VNC	7.5	Lead-Free 144-Pin TQFP	
		M4A5-192/96-10VC	M4A5-192/96-10VNC	10	Lead-Free 144-Pin TQFP	
		M4A5-192/96-7VI	M4A5-192/96-7VNI	7.5	Lead-Free 144-Pin TQFP	Industrial
		M4A5-192/96-10VI	M4A5-192/96-10VNI	10	Lead-Free 144-Pin TQFP	
		M4A5-192/96-12VI	M4A5-192/96-12VNI	12	Lead-Free 144-Pin TQFP	

ispGDXVA Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
ispGDX80VA	3.3V	ispGDX80VA-3T100	ispGDX80VA-3TN100	3.5	Lead-Free 100-Pin TQFP	Commercial
		ispGDX80VA-5T100	ispGDX80VA-5TN100	5.0	Lead-Free 100-Pin TQFP	
		ispGDX80VA-7T100	ispGDX80VA-7TN100	7.0	Lead-Free 100-Pin TQFP	
		ispGDX80VA-5T100I	ispGDX80VA-5TN100I	5.0	Lead-Free 100-Pin TQFP	Industrial
		ispGDX80VA-7T100I	ispGDX80VA-7TN100I	7.0	Lead-Free 100-Pin TQFP	
		ispGDX80VA-9T100I	ispGDX80VA-9TN100I	9.0	Lead-Free 100-Pin TQFP	
ispGDX160VA	3.3V	ispGDX160VA-3B208	ispGDX160VA-3BN208	3.5	Lead-Free 208-Ball fpBGA	Commercial
		ispGDX160VA-5B208	ispGDX160VA-5BN208	5.0	Lead-Free 208-Ball fpBGA	
		ispGDX160VA-7B208	ispGDX160VA-7BN208	7.0	Lead-Free 208-Ball fpBGA	
		ispGDX160VA-5B208I	ispGDX160VA-5BN208I	5.0	Lead-Free 208-Ball fpBGA	Industrial
		ispGDX160VA-7B208I	ispGDX160VA-7BN208I	7.0	Lead-Free 208-Ball fpBGA	
		ispGDX160VA-9B208I	ispGDX160VA-9BN208I	9.0	Lead-Free 208-Ball fpBGA	
ispGDX240VA	3.3V	ispGDX240VA-4B388	ispGDX240VA-4BN388	4.5	Lead-Free 388-Ball fpBGA	Commercial
		ispGDX240VA-7B388	ispGDX240VA-7BN388	7.5	Lead-Free 388-Ball fpBGA	
		ispGDX240VA-7B388I	ispGDX240VA-7BN388I	7.5	Lead-Free 388-Ball fpBGA	Industrial
		ispGDX240VA-10B388I	ispGDX240VA-10BN388I	10	Lead-Free 388-Ball fpBGA	

ispGDX2 Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LX64C	1.8V	LX64C-3F100C	LX64C-3FN100C	3.0	Lead-Free 100-Ball fpBGA	Commercial
		LX64C-5F100C	LX64C-5FN100C	5.0	Lead-Free 100-Ball fpBGA	
LX128C	1.8V	LX128C-32F208C	LX128C-32FN208C	3.2	Lead-Free 208-Ball fpBGA	
		LX128C-5F208C	LX128C-5FN208C	5.0	Lead-Free 208-Ball fpBGA	
LX256C	1.8V	LX256C-35F484C	LX256C-35FN484C	3.5	Lead-Free 484-Ball fpBGA	
		LX256C-5F484C	LX256C-5FN484C	5.0	Lead-Free 484-Ball fpBGA	
LX64B	2.5V	LX64B-3F100C	LX64B-3FN100C	3.0	Lead-Free 100-Ball fpBGA	Commercial
		LX64B-5F100C	LX64B-5FN100C	5.0	Lead-Free 100-Ball fpBGA	
LX128B	2.5V	LX128B-32F208C	LX128B-32FN208C	3.2	Lead-Free 208-Ball fpBGA	
		LX128B-5F208C	LX128B-5FN208C	5.0	Lead-Free 208-Ball fpBGA	
LX256B	2.5V	LX256B-35F484C	LX256B-35FN484C	3.5	Lead-Free 484-Ball fpBGA	
		LX256B-5F484C	LX256B-5FN484C	5.0	Lead-Free 484-Ball fpBGA	
LX64V	3.3V	LX64V-3F100C	LX64V-3FN100C	3.0	Lead-Free 100-Ball fpBGA	Commercial
		LX64V-5F100C	LX64V-5FN100C	5.0	Lead-Free 100-Ball fpBGA	
LX128V	3.3V	LX128V-32F208C	LX128V-32FN208C	3.2	Lead-Free 208-Ball fpBGA	
		LX128V-5F208C	LX128V-5FN208C	5.0	Lead-Free 208-Ball fpBGA	
LX256V	3.3V	LX256V-35F484C	LX256V-35FN484C	3.5	Lead-Free 484-Ball fpBGA	
		LX256V-5F484C	LX256V-5FN484C	5.0	Lead-Free 484-Ball fpBGA	

ispGDX2 "E-Series" Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LX64EC	1.8V	LX64EC-3F100C	LX64EC-3FN100C	3.0	Lead-Free 100-Ball fpBGA	Commercial
		LX64EC-5F100C	LX64EC-5FN100C	5.0	Lead-Free 100-Ball fpBGA	Industrial
		LX64EC-5F100I	LX64EC-5FN100I	5.0	Lead-Free 100-Ball fpBGA	Industrial
LX128EC	1.8V	LX128EC-32F208C	LX128EC-32FN208C	3.2	Lead-Free 208-Ball fpBGA	Commercial
		LX128EC-5F208C	LX128EC-5FN208C	5.0	Lead-Free 208-Ball fpBGA	Industrial
		LX128EC-5F208I	LX128EC-5FN208I	5.0	Lead-Free 208-Ball fpBGA	Industrial
LX256EC	1.8V	LX256EC-35F484C	LX256EC-35FN484C	3.5	Lead-Free 484-Ball fpBGA	Commercial
		LX256EC-5F484C	LX256EC-5FN484C	5.0	Lead-Free 484-Ball fpBGA	Industrial
		LX256EC-5F484I	LX256EC-5FN484I	5.0	Lead-Free 484-Ball fpBGA	Industrial
LX64EB	2.5V	LX64EB-3F100C	LX64EB-3FN100C	3.0	Lead-Free 100-Ball fpBGA	Commercial
		LX64EB-5F100C	LX64EB-5FN100C	5.0	Lead-Free 100-Ball fpBGA	Industrial
		LX64EB-5F100I	LX64EB-5FN100I	5.0	Lead-Free 100-Ball fpBGA	Industrial
LX128EB	2.5V	LX128EB-32F208C	LX128EB-32FN208C	3.2	Lead-Free 208-Ball fpBGA	Commercial
		LX128EB-5F208C	LX128EB-5FN208C	5.0	Lead-Free 208-Ball fpBGA	Industrial
		LX128EB-5F208I	LX128EB-5FN208I	5.0	Lead-Free 208-Ball fpBGA	Industrial
LX256EB	2.5V	LX256EB-35F484C	LX256EB-35FN484C	3.5	Lead-Free 484-Ball fpBGA	Commercial
		LX256EB-5F484C	LX256EB-5FN484C	5.0	Lead-Free 484-Ball fpBGA	Industrial
		LX256EB-5F484I	LX256EB-5FN484I	5.0	Lead-Free 484-Ball fpBGA	Industrial
LX64EV	3.3V	LX64EV-3F100C	LX64EV-3FN100C	3.0	Lead-Free 100-Ball fpBGA	Commercial
		LX64EV-5F100C	LX64EV-5FN100C	5.0	Lead-Free 100-Ball fpBGA	Industrial
		LX64EV-5F100I	LX64EV-5FN100I	5.0	Lead-Free 100-Ball fpBGA	Industrial
LX128EV	3.3V	LX128EV-32F208C	LX128EV-32FN208C	3.2	Lead-Free 208-Ball fpBGA	Commercial
		LX128EV-5F208C	LX128EV-5FN208C	5.0	Lead-Free 208-Ball fpBGA	Industrial
		LX128EV-5F208I	LX128EV-5FN208I	5.0	Lead-Free 208-Ball fpBGA	Industrial
LX256EV	3.3V	LX256EV-35F484C	LX256EV-35FN484C	3.5	Lead-Free 484-Ball fpBGA	Commercial
		LX256EV-5F484C	LX256EV-5FN484C	5.0	Lead-Free 484-Ball fpBGA	Industrial
		LX256EV-5F484I	LX256EV-5FN484I	5.0	Lead-Free 484-Ball fpBGA	Industrial

ispMACH 4000Z Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade			
LC4032ZC	1.8V, Zero Power	LC4032ZC-35T48C	LC4032ZC-35TN48C	3.5	Lead-Free 48-Pin TQFP	Commercial			
		LC4032ZC-35M56C	LC4032ZC-35MN56C	3.5	Lead-Free 56-Ball csBGA				
		LC4032ZC-5T48C	LC4032ZC-5TN48C	5.0	Lead-Free 48-Pin TQFP				
		LC4032ZC-5M56C	LC4032ZC-5MN56C	5.0	Lead-Free 56-Ball csBGA				
		LC4032ZC-75T48C	LC4032ZC-75TN48C	7.5	Lead-Free 48-Pin TQFP				
		LC4032ZC-75M56C	LC4032ZC-75MN56C	7.5	Lead-Free 56-Ball csBGA				
		Industrial	LC4032ZC-5T48I	LC4032ZC-5TN48I	5.0	Lead-Free 48-Pin TQFP			
			LC4032ZC-5M56I	LC4032ZC-5MN56I	5.0	Lead-Free 56-Ball csBGA			
			LC4032ZC-75T48I	LC4032ZC-75TN48I	7.5	Lead-Free 48-Pin TQFP			
			LC4032ZC-75M56I	LC4032ZC-75MN56I	7.5	Lead-Free 56-Ball csBGA			
			LC4032ZC-75T48E	LC4032ZC-75TN48E	7.2	Lead-Free 48-Pin TQFP			
			Automotive						
LC4064ZC	1.8V, Zero Power	LC4064ZC-37T48C	LC4064ZC-37TN48C	3.7	Lead-Free 48-Pin TQFP	Commercial			
		LC4064ZC-37M56C	LC4064ZC-37MN56C	3.7	Lead-Free 56-Ball csBGA				
		LC4064ZC-37T100C	LC4064ZC-37TN100C	3.7	Lead-Free 100-Pin TQFP				
		LC4064ZC-37M132C	LC4064ZC-37MN132C	3.7	Lead-Free 132-Ball csBGA				
		LC4064ZC-5T48C	LC4064ZC-5TN48C	5.0	Lead-Free 48-Pin TQFP				
		LC4064ZC-5M56C	LC4064ZC-5MN56C	5.0	Lead-Free 56-Ball csBGA				
		LC4064ZC-5T100C	LC4064ZC-5TN100C	5.0	Lead-Free 100-Pin TQFP				
		LC4064ZC-5M132C	LC4064ZC-5MN132C	5.0	Lead-Free 132-Ball csBGA				
		LC4064ZC-75T48C	LC4064ZC-75TN48C	7.5	Lead-Free 48-Pin TQFP				
		LC4064ZC-75M56C	LC4064ZC-75MN56C	7.5	Lead-Free 56-Ball csBGA				
		LC4064ZC-75T100C	LC4064ZC-75TN100C	7.5	Lead-Free 100-Pin TQFP				
		LC4064ZC-75M132C	LC4064ZC-75MN132C	7.5	Lead-Free 132-Ball csBGA				
		Industrial	LC4064ZC-5T48I	LC4064ZC-5TN48I	5.0		Lead-Free 48-Pin TQFP		
			LC4064ZC-5M56I	LC4064ZC-5MN56I	5.0		Lead-Free 56-Ball csBGA		
			LC4064ZC-5T100I	LC4064ZC-5TN100I	5.0	Lead-Free 100-Pin TQFP			
			LC4064ZC-5M132I	LC4064ZC-5MN132I	5.0	Lead-Free 132-Ball csBGA			
			LC4064ZC-75T48I	LC4064ZC-75TN48I	7.5	Lead-Free 48-Pin TQFP			
			LC4064ZC-75M56I	LC4064ZC-75MN56I	7.5	Lead-Free 56-Ball csBGA			
			LC4064ZC-75T100I	LC4064ZC-75TN100I	7.5	Lead-Free 100-Pin TQFP			
			LC4064ZC-75M132I	LC4064ZC-75MN132I	7.5	Lead-Free 132-Ball csBGA			
			LC4064ZC-75T48E	LC4064ZC-75TN48E	7.5	Lead-Free 48-Pin TQFP			
			LC4064ZC-75T100E	LC4064ZC-75TN100E	7.5	Lead-Free 100-Pin TQFP			
			Automotive						
			LC4128ZC	1.8V, Zero Power	LC4128ZC-42T100C	LC4128ZC-42TN100C	4.2	Lead-Free 100-Pin TQFP	Commercial
					LC4128ZC-42M132C	LC4128ZC-42MN132C	4.2	Lead-Free 132-Ball csBGA	
		LC4128ZC-75T100C			LC4128ZC-75TN100C	7.5	Lead-Free 100-Pin TQFP		
		LC4128ZC-75M132C			LC4128ZC-75MN132C	7.5	Lead-Free 132-Ball csBGA		
Industrial	LC4128ZC-75T100I	LC4128ZC-75TN100I			7.5	Lead-Free 100-Pin TQFP			
	LC4128ZC-75M132I	LC4128ZC-75MN132I			7.5	Lead-Free 132-Ball csBGA			
	LC4128ZC-75T100E	LC4128ZC-75TN100E			7.5	Lead-Free 100-Pin TQFP			
	Automotive								
LC4256ZC	1.8V, Zero Power	LC4256ZC-45T100C	LC4256ZC-45TN100C	4.5	Lead-Free 100-Pin TQFP	Commercial			
		LC4256ZC-45M132C	LC4256ZC-45MN132C	4.5	Lead-Free 132-Ball csBGA				
		LC4256ZC-45T176C	LC4256ZC-45TN176C	4.5	Lead-Free 176-Pin TQFP				
		LC4256ZC-75T100C	LC4256ZC-75TN100C	7.5	Lead-Free 100-Pin TQFP				
		LC4256ZC-75M132C	LC4256ZC-75MN132C	7.5	Lead-Free 132-Ball csBGA				
		LC4256ZC-75T176C	LC4256ZC-75TN176C	7.5	Lead-Free 176-Pin TQFP				
		LC4256ZC-75T100I	LC4256ZC-75TN100I	7.5	Lead-Free 100-Pin TQFP				
		Industrial	LC4256ZC-75M132I	LC4256ZC-75MN132I	7.5	Lead-Free 132-Ball csBGA			
			LC4256ZC-75T176I	LC4256ZC-75TN176I	7.5	Lead-Free 176-Pin TQFP			
			LC4256ZC-75T100E	LC4256ZC-75TN100E	7.5	Lead-Free 100-Pin TQFP			
			LC4256ZC-75T176E	LC4256ZC-75TN176E	7.5	Lead-Free 176-Pin TQFP			
			Automotive						

ispMACH 4000C Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LC4032C	1.8V	LC4032C-25T44C	LC4032C-25TN44C	2.5	Lead-Free 44-Pin TQFP	Commercial
		LC4032C-25T48C	LC4032C-25TN48C	2.5	Lead-Free 48-Pin TQFP	
		LC4032C-5T44C	LC4032C-5TN44C	5.0	Lead-Free 44-Pin TQFP	
		LC4032C-5T48C	LC4032C-5TN48C	5.0	Lead-Free 48-Pin TQFP	
		LC4032C-75T44C	LC4032C-75TN44C	7.5	Lead-Free 44-Pin TQFP	
		LC4032C-75T48C	LC4032C-75TN48C	7.5	Lead-Free 48-Pin TQFP	
		LC4032C-5T44I	LC4032C-5TN44I	5.0	Lead-Free 44-Pin TQFP	Industrial
		LC4032C-5T48I	LC4032C-5TN48I	5.0	Lead-Free 48-Pin TQFP	
		LC4032C-75T44I	LC4032C-75TN44I	7.5	Lead-Free 44-Pin TQFP	
		LC4032C-75T48I	LC4032C-75TN48I	7.5	Lead-Free 48-Pin TQFP	
		LC4032C-10T44I	LC4032C-10TN44I	10	Lead-Free 44-Pin TQFP	
		LC4032C-10T48I	LC4032C-10TN48I	10	Lead-Free 48-Pin TQFP	
LC4064C	1.8V	LC4064C-25T44C	LC4064C-25TN44C	2.5	Lead-Free 44-Pin TQFP	Commercial
		LC4064C-25T48C	LC4064C-25TN48C	2.5	Lead-Free 48-Pin TQFP	
		LC4064C-25T100C	LC4064C-25TN100C	2.5	Lead-Free 100-Pin TQFP	
		LC4064C-5T44C	LC4064C-5TN44C	5.0	Lead-Free 44-Pin TQFP	
		LC4064C-5T48C	LC4064C-5TN48C	5.0	Lead-Free 48-Pin TQFP	
		LC4064C-5T100C	LC4064C-5TN100C	5.0	Lead-Free 100-Pin TQFP	
		LC4064C-75T44C	LC4064C-75TN44C	7.5	Lead-Free 44-Pin TQFP	Industrial
		LC4064C-75T48C	LC4064C-75TN48C	7.5	Lead-Free 48-Pin TQFP	
		LC4064C-75T100C	LC4064C-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4064C-5T44I	LC4064C-5TN44I	5.0	Lead-Free 44-Pin TQFP	
		LC4064C-5T48I	LC4064C-5TN48I	5.0	Lead-Free 48-Pin TQFP	
		LC4064C-5T100I	LC4064C-5TN100I	5.0	Lead-Free 100-Pin TQFP	
		LC4064C-75T44I	LC4064C-75TN44I	7.5	Lead-Free 44-Pin TQFP	Industrial
		LC4064C-75T48I	LC4064C-75TN48I	7.5	Lead-Free 48-Pin TQFP	
		LC4064C-75T100I	LC4064C-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4064C-10T44I	LC4064C-10TN44I	10	Lead-Free 44-Pin TQFP	
		LC4064C-10T48I	LC4064C-10TN48I	10	Lead-Free 48-Pin TQFP	
		LC4064C-10T100I	LC4064C-10TN100I	10	Lead-Free 100-Pin TQFP	
LC4128C	1.8V	LC4128C-27T100C	LC4128C-27TN100C	2.7	Lead-Free 100-Pin TQFP	Commercial
		LC4128C-27T128C	LC4128C-27TN128C	2.7	Lead-Free 128-Pin TQFP	
		LC4128C-5T100C	LC4128C-5TN100C	5.0	Lead-Free 100-Pin TQFP	
		LC4128C-5T128C	LC4128C-5TN128C	5.0	Lead-Free 128-Pin TQFP	
		LC4128C-75T100C	LC4128C-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4128C-75T128C	LC4128C-75TN128C	7.5	Lead-Free 128-Pin TQFP	
		LC4128C-5T100I	LC4128C-5TN100I	5.0	Lead-Free 100-Pin TQFP	Industrial
		LC4128C-5T128I	LC4128C-5TN128I	5.0	Lead-Free 128-Pin TQFP	
		LC4128C-75T100I	LC4128C-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4128C-75T128I	LC4128C-75TN128I	7.5	Lead-Free 128-Pin TQFP	
		LC4128C-10T100I	LC4128C-10TN100I	10	Lead-Free 100-Pin TQFP	
		LC4128C-10T128I	LC4128C-10TN128I	10	Lead-Free 128-Pin TQFP	
LC4256C	1.8V	LC4256C-3T100C	LC4256C-3TN100C	3.0	Lead-Free 100-Pin TQFP	Commercial
		LC4256C-3T176C	LC4256C-3TN176C	3.0	Lead-Free 176-Pin TQFP	
		LC4256C-3F256AC	LC4256C-3FN256AC	3.0	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256C-3F256BC	LC4256C-3FN256BC	3.0	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256C-5T100C	LC4256C-5TN100C	5.0	Lead-Free 100-Pin TQFP	
		LC4256C-5T176C	LC4256C-5TN176C	5.0	Lead-Free 176-Pin TQFP	
		LC4256C-5F256AC	LC4256C-5FN256AC	5.0	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256C-5F256BC	LC4256C-5FN256BC	5.0	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256C-75T100C	LC4256C-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4256C-75T176C	LC4256C-75TN176C	7.5	Lead-Free 176-Pin TQFP	
		LC4256C-75F256AC	LC4256C-75FN256AC	7.5	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256C-75F256BC	LC4256C-75FN256BC	7.5	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256C-5T100I	LC4256C-5TN100I	5.0	Lead-Free 100-Pin TQFP	Industrial
		LC4256C-5T176I	LC4256C-5TN176I	5.0	Lead-Free 176-Pin TQFP	
		LC4256C-5F256AI	LC4256C-5FN256AI	5.0	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256C-5F256BI	LC4256C-5FN256BI	5.0	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256C-75T100I	LC4256C-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4256C-75T176I	LC4256C-75TN176I	7.5	Lead-Free 176-Pin TQFP	
		LC4256C-75F256AI	LC4256C-75FN256AI	7.5	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256C-75F256BI	LC4256C-75FN256BI	7.5	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256C-10T100I	LC4256C-10TN100I	10	Lead-Free 100-Pin TQFP	
		LC4256C-10T176I	LC4256C-10TN176I	10	Lead-Free 176-Pin TQFP	
		LC4256C-10F256AI	LC4256C-10FN256AI	10	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256C-10F256BI	LC4256C-10FN256BI	10	Lead-Free 256-Ball fpBGA (160 I/O)	

ispMACH 4000C Device Family (Cont'd)

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LC4384C	1.8V	LC4384C-35T176C	LC4384C-35TN176C	3.5	Lead-Free 176-Pin TQFP	Commercial
		LC4384C-35F256C	LC4384C-35FN256C	3.5	Lead-Free 256-Ball fpBGA	
		LC4384C-5T176C	LC4384C-5TN176C	5.0	Lead-Free 176-Pin TQFP	
		LC4384C-5F256C	LC4384C-5FN256C	5.0	Lead-Free 256-Ball fpBGA	
		LC4384C-75T176C	LC4384C-75TN176C	7.5	Lead-Free 176-Pin TQFP	
		LC4384C-75F256C	LC4384C-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC4384C-5T176I	LC4384C-5TN176I	5.0	Lead-Free 176-Pin TQFP	Industrial
		LC4384C-5F256I	LC4384C-5FN256I	5.0	Lead-Free 256-Ball fpBGA	
		LC4384C-75T176I	LC4384C-75TN176I	7.5	Lead-Free 176-Pin TQFP	
		LC4384C-75F256I	LC4384C-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
		LC4384C-10T176I	LC4384C-10TN176I	10	Lead-Free 176-Pin TQFP	
		LC4384C-10F256I	LC4384C-10FN256I	10	Lead-Free 256-Ball fpBGA	
		LC4512C	1.8V	LC4512C-35T176C	LC4512C-35TN176C	
LC4512C-35F256C	LC4512C-35FN256C	3.5		Lead-Free 256-Ball fpBGA		
LC4512C-5T176C	LC4512C-5TN176C	5.0		Lead-Free 176-Pin TQFP		
LC4512C-5F256C	LC4512C-5FN256C	5.0		Lead-Free 256-Ball fpBGA		
LC4512C-75T176C	LC4512C-75TN176C	7.5		Lead-Free 176-Pin TQFP		
LC4512C-75F256C	LC4512C-75FN256C	7.5		Lead-Free 256-Ball fpBGA		
LC4512C-5T176I	LC4512C-5TN176I	5.0		Lead-Free 176-Pin TQFP	Industrial	
LC4512C-5F256I	LC4512C-5FN256I	5.0		Lead-Free 256-Ball fpBGA		
LC4512C-75T176I	LC4512C-75TN176I	7.5		Lead-Free 176-Pin TQFP		
LC4512C-75F256I	LC4512C-75FN256I	7.5		Lead-Free 256-Ball fpBGA		
LC4512C-10T176I	LC4512C-10TN176I	10		Lead-Free 176-Pin TQFP		
LC4512C-10F256I	LC4512C-10FN256I	10		Lead-Free 256-Ball fpBGA		

ispMACH 4000B Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LC4032B	2.5V	LC4032B-25T44C	LC4032B-25TN44C	2.5	Lead-Free 44-Pin TQFP	Commercial
		LC4032B-25T48C	LC4032B-25TN48C	2.5	Lead-Free 48-Pin TQFP	
		LC4032B-5T44C	LC4032B-5TN44C	5	Lead-Free 44-Pin TQFP	
		LC4032B-5T48C	LC4032B-5TN48C	5	Lead-Free 48-Pin TQFP	
		LC4032B-75T44C	LC4032B-75TN44C	7.5	Lead-Free 44-Pin TQFP	
		LC4032B-75T48C	LC4032B-75TN48C	7.5	Lead-Free 48-Pin TQFP	
		LC4032B-5T44I	LC4032B-5TN44I	5	Lead-Free 44-Pin TQFP	Industrial
		LC4032B-5T48I	LC4032B-5TN48I	5	Lead-Free 48-Pin TQFP	
		LC4032B-75T44I	LC4032B-75TN44I	7.5	Lead-Free 44-Pin TQFP	
		LC4032B-75T48I	LC4032B-75TN48I	7.5	Lead-Free 48-Pin TQFP	
		LC4032B-10T44I	LC4032B-10TN44I	10	Lead-Free 44-Pin TQFP	
		LC4032B-10T48I	LC4032B-10TN48I	10	Lead-Free 48-Pin TQFP	
LC4064B	2.5V	LC4064B-25T44C	LC4064B-25TN44C	2.5	Lead-Free 44-Pin TQFP	Commercial
		LC4064B-25T48C	LC4064B-25TN48C	2.5	Lead-Free 48-Pin TQFP	
		LC4064B-25T100C	LC4064B-25TN100C	2.5	Lead-Free 100-Pin TQFP	
		LC4064B-5T44C	LC4064B-5TN44C	5	Lead-Free 44-Pin TQFP	
		LC4064B-5T48C	LC4064B-5TN48C	5	Lead-Free 48-Pin TQFP	
		LC4064B-5T100C	LC4064B-5TN100C	5	Lead-Free 100-Pin TQFP	
		LC4064B-75T44C	LC4064B-75TN44C	7.5	Lead-Free 44-Pin TQFP	Industrial
		LC4064B-75T48C	LC4064B-75TN48C	7.5	Lead-Free 48-Pin TQFP	
		LC4064B-75T100C	LC4064B-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4064B-5T44I	LC4064B-5TN44I	5	Lead-Free 44-Pin TQFP	
		LC4064B-5T48I	LC4064B-5TN48I	5	Lead-Free 48-Pin TQFP	
		LC4064B-5T100I	LC4064B-5TN100I	5	Lead-Free 100-Pin TQFP	
		LC4064B-75T44I	LC4064B-75TN44I	7.5	Lead-Free 44-Pin TQFP	
		LC4064B-75T48I	LC4064B-75TN48I	7.5	Lead-Free 48-Pin TQFP	
		LC4064B-75T100I	LC4064B-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4064B-10T44I	LC4064B-10TN44I	10	Lead-Free 44-Pin TQFP	
		LC4064B-10T48I	LC4064B-10TN48I	10	Lead-Free 48-Pin TQFP	
		LC4064B-10T100I	LC4064B-10TN100I	10	Lead-Free 100-Pin TQFP	
LC4128B	2.5V	LC4128B-27T100C	LC4128B-27TN100C	2.7	Lead-Free 100-Pin TQFP	Commercial
		LC4128B-27T128C	LC4128B-27TN128C	2.7	Lead-Free 128-Pin TQFP	
		LC4128B-5T100C	LC4128B-5TN100C	5	Lead-Free 100-Pin TQFP	
		LC4128B-5T128C	LC4128B-5TN128C	5	Lead-Free 128-Pin TQFP	
		LC4128B-75T100C	LC4128B-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4128B-75T128C	LC4128B-75TN128C	7.5	Lead-Free 128-Pin TQFP	
		LC4128B-5T100I	LC4128B-5TN100I	5	Lead-Free 100-Pin TQFP	Industrial
		LC4128B-5T128I	LC4128B-5TN128I	5	Lead-Free 128-Pin TQFP	
		LC4128B-75T100I	LC4128B-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4128B-75T128I	LC4128B-75TN128I	7.5	Lead-Free 128-Pin TQFP	
		LC4128B-10T100I	LC4128B-10TN100I	10	Lead-Free 100-Pin TQFP	
		LC4128B-10T128I	LC4128B-10TN128I	10	Lead-Free 128-Pin TQFP	
LC4256B	2.5V	LC4256B-3T100C	LC4256B-3TN100C	3	Lead-Free 100-Pin TQFP	Commercial
		LC4256B-3T176C	LC4256B-3TN176C	3	Lead-Free 176-Pin TQFP	
		LC4256B-3F256AC	LC4256B-3FN256AC	3	Lead-Free 256-Ball fpBGA	
		LC4256B-3F256BC	LC4256B-3FN256BC	3	Lead-Free 256-Ball fpBGA	
		LC4256B-5T100C	LC4256B-5TN100C	5	Lead-Free 100-Pin TQFP	
		LC4256B-5T176C	LC4256B-5TN176C	5	Lead-Free 176-Pin TQFP	
		LC4256B-5F256AC	LC4256B-5FN256AC	5	Lead-Free 256-Ball fpBGA	
		LC4256B-5F256BC	LC4256B-5FN256BC	5	Lead-Free 256-Ball fpBGA	
		LC4256B-75T100C	LC4256B-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4256B-75T176C	LC4256B-75TN176C	7.5	Lead-Free 176-Pin TQFP	
		LC4256B-75F256AC	LC4256B-75FN256AC	7.5	Lead-Free 256-Ball fpBGA	
		LC4256B-75F256BC	LC4256B-75FN256BC	7.5	Lead-Free 256-Ball fpBGA	
		LC4256B-5T100I	LC4256B-5TN100I	5	Lead-Free 100-Pin TQFP	Industrial
		LC4256B-5T176I	LC4256B-5TN176I	5	Lead-Free 176-Pin TQFP	
		LC4256B-5F256AI	LC4256B-5FN256AI	5	Lead-Free 256-Ball fpBGA	
		LC4256B-5F256BI	LC4256B-5FN256BI	5	Lead-Free 256-Ball fpBGA	
		LC4256B-75T100I	LC4256B-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4256B-75T176I	LC4256B-75TN176I	7.5	Lead-Free 176-Pin TQFP	
		LC4256B-75F256AI	LC4256B-75FN256AI	7.5	Lead-Free 256-Ball fpBGA	
		LC4256B-75F256BI	LC4256B-75FN256BI	7.5	Lead-Free 256-Ball fpBGA	
		LC4256B-10T100I	LC4256B-10TN100I	10	Lead-Free 100-Pin TQFP	
		LC4256B-10T176I	LC4256B-10TN176I	10	Lead-Free 176-Pin TQFP	
		LC4256B-10F256AI	LC4256B-10FN256AI	10	Lead-Free 256-Ball fpBGA	
		LC4256B-10F256BI	LC4256B-10FN256BI	10	Lead-Free 256-Ball fpBGA	

ispMACH 4000B Device Family (Cont'd)

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LC4384B	2.5V	LC4384B-35T176C	LC4384B-35TN176C	3.5	Lead-Free 176-Pin TQFP	Commercial
		LC4384B-35F256C	LC4384B-35FN256C	3.5	Lead-Free 256-Ball fpBGA	
		LC4384B-5T176C	LC4384B-5TN176C	5	Lead-Free 176-Pin TQFP	
		LC4384B-5F256C	LC4384B-5FN256C	5	Lead-Free 256-Ball fpBGA	
		LC4384B-75T176C	LC4384B-75TN176C	7.5	Lead-Free 176-Pin TQFP	
		LC4384B-75F256C	LC4384B-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC4384B-5T176I	LC4384B-5TN176I	5	Lead-Free 176-Pin TQFP	Industrial
		LC4384B-5F256I	LC4384B-5FN256I	5	Lead-Free 256-Ball fpBGA	
		LC4384B-75T176I	LC4384B-75TN176I	7.5	Lead-Free 176-Pin TQFP	
		LC4384B-75F256I	LC4384B-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
		LC4384B-10T176I	LC4384B-10TN176I	10	Lead-Free 176-Pin TQFP	
		LC4384B-10F256I	LC4384B-10FN256I	10	Lead-Free 256-Ball fpBGA	
LC4512B	2.5V	LC4512B-35T176C	LC4512B-35TN176C	3.5	Lead-Free 176-Pin TQFP	Commercial
		LC4512B-35F256C	LC4512B-35FN256C	3.5	Lead-Free 256-Ball fpBGA	
		LC4512B-5T176C	LC4512B-5TN176C	5	Lead-Free 176-Pin TQFP	
		LC4512B-5F256C	LC4512B-5FN256C	5	Lead-Free 256-Ball fpBGA	
		LC4512B-75T176C	LC4512B-75TN176C	7.5	Lead-Free 176-Pin TQFP	
		LC4512B-75F256C	LC4512B-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC4512B-5T176I	LC4512B-5TN176I	5	Lead-Free 176-Pin TQFP	Industrial
		LC4512B-5F256I	LC4512B-5FN256I	5	Lead-Free 256-Ball fpBGA	
		LC4512B-75T176I	LC4512B-75TN176I	7.5	Lead-Free 176-Pin TQFP	
		LC4512B-75F256I	LC4512B-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
		LC4512B-10T176I	LC4512B-10TN176I	10	Lead-Free 176-Pin TQFP	
		LC4512B-10F256I	LC4512B-10FN256I	10	Lead-Free 256-Ball fpBGA	

ispMACH 4000V Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade
LC4032V	3.3V	LC4032V-25T44C	LC4032V-25TN44C	2.5	Lead-Free 44-Pin TQFP	Commercial
		LC4032V-25T48C	LC4032V-25TN48C	2.5	Lead-Free 48-Pin TQFP	
		LC4032V-5T44C	LC4032V-5TN44C	5.0	Lead-Free 44-Pin TQFP	
		LC4032V-5T48C	LC4032V-5TN48C	5.0	Lead-Free 48-Pin TQFP	
		LC4032V-75T44C	LC4032V-75TN44C	7.5	Lead-Free 44-Pin TQFP	
		LC4032V-75T48C	LC4032V-75TN48C	7.5	Lead-Free 48-Pin TQFP	Industrial
		LC4032V-5T44I	LC4032V-5TN44I	5.0	Lead-Free 44-Pin TQFP	
		LC4032V-5T48I	LC4032V-5TN48I	5.0	Lead-Free 48-Pin TQFP	
		LC4032V-75T44I	LC4032V-75TN44I	7.5	Lead-Free 44-Pin TQFP	
		LC4032V-75T48I	LC4032V-75TN48I	7.5	Lead-Free 48-Pin TQFP	
		LC4032V-10T44I	LC4032V-10TN44I	10	Lead-Free 44-Pin TQFP	Automotive
		LC4032V-10T48I	LC4032V-10TN48I	10	Lead-Free 48-Pin TQFP	
		LC4032V-75T44E	LC4032V-75TN44E	7.5	Lead-Free 44-Pin TQFP	
		LC4032V-75T48E	LC4032V-75TN48E	7.5	Lead-Free 48-Pin TQFP	
		LC4064V-25T44C	LC4064V-25TN44C	2.5	Lead-Free 44-Pin TQFP	
LC4064V-25T48C	LC4064V-25TN48C	2.5	Lead-Free 48-Pin TQFP			
LC4064V-25T100C	LC4064V-25TN100C	2.5	Lead-Free 100-Pin TQFP			
LC4064V-5T44C	LC4064V-5TN44C	5.0	Lead-Free 44-Pin TQFP			
LC4064V-5T48C	LC4064V-5TN48C	5.0	Lead-Free 48-Pin TQFP			
LC4064V-5T100C	LC4064V-5TN100C	5.0	Lead-Free 100-Pin TQFP	Industrial		
LC4064V-75T44C	LC4064V-75TN44C	7.5	Lead-Free 44-Pin TQFP			
LC4064V-75T48C	LC4064V-75TN48C	7.5	Lead-Free 48-Pin TQFP			
LC4064V-75T100C	LC4064V-75TN100C	7.5	Lead-Free 100-Pin TQFP			
LC4064V-5T44I	LC4064V-5TN44I	5.0	Lead-Free 44-Pin TQFP			
LC4064V-5T48I	LC4064V-5TN48I	5.0	Lead-Free 48-Pin TQFP	Automotive		
LC4064V-5T100I	LC4064V-5TN100I	5.0	Lead-Free 100-Pin TQFP			
LC4064V-75T44I	LC4064V-75TN44I	7.5	Lead-Free 44-Pin TQFP			
LC4064V-75T48I	LC4064V-75TN48I	7.5	Lead-Free 48-Pin TQFP			
LC4064V-75T100I	LC4064V-75TN100I	7.5	Lead-Free 100-Pin TQFP			
LC4064V-10T44I	LC4064V-10TN44I	10	Lead-Free 44-Pin TQFP	Automotive		
LC4064V-10T48I	LC4064V-10TN48I	10	Lead-Free 48-Pin TQFP			
LC4064V-10T100I	LC4064V-10TN100I	10	Lead-Free 100-Pin TQFP			
LC4064V-75T44E	LC4064V-75TN44E	7.5	Lead-Free 44-Pin TQFP			
LC4064V-75T48E	LC4064V-75TN48E	7.5	Lead-Free 48-Pin TQFP			
LC4064V-75T100E	LC4064V-75TN100E	7.5	Lead-Free 100-Pin TQFP			
LC4128V	3.3V	LC4128V-27T100C	LC4128V-27TN100C	2.7	Lead-Free 100-Pin TQFP	Commercial
		LC4128V-27T128C	LC4128V-27TN128C	2.7	Lead-Free 128-Pin TQFP	
		LC4128V-27T144C	LC4128V-27TN144C	2.7	Lead-Free 144-Pin TQFP	
		LC4128V-5T100C	LC4128V-5TN100C	5.0	Lead-Free 100-Pin TQFP	
		LC4128V-5T128C	LC4128V-5TN128C	5.0	Lead-Free 128-Pin TQFP	
		LC4128V-5T144C	LC4128V-5TN144C	5.0	Lead-Free 144-Pin TQFP	Industrial
		LC4128V-75T100C	LC4128V-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4128V-75T128C	LC4128V-75TN128C	7.5	Lead-Free 128-Pin TQFP	
		LC4128V-75T144C	LC4128V-75TN144C	7.5	Lead-Free 144-Pin TQFP	
		LC4128V-5T100I	LC4128V-5TN100I	5.0	Lead-Free 100-Pin TQFP	
		LC4128V-5T128I	LC4128V-5TN128I	5.0	Lead-Free 128-Pin TQFP	Automotive
		LC4128V-5T144I	LC4128V-5TN144I	5.0	Lead-Free 144-Pin TQFP	
		LC4128V-75T100I	LC4128V-75TN100I	7.5	Lead-Free 100-Pin TQFP	
		LC4128V-75T128I	LC4128V-75TN128I	7.5	Lead-Free 128-Pin TQFP	
		LC4128V-75T144I	LC4128V-75TN144I	7.5	Lead-Free 144-Pin TQFP	
		LC4128V-10T100I	LC4128V-10TN100I	10	Lead-Free 100-Pin TQFP	Automotive
		LC4128V-10T128I	LC4128V-10TN128I	10	Lead-Free 128-Pin TQFP	
		LC4128V-10T144I	LC4128V-10TN144I	10	Lead-Free 144-Pin TQFP	
		LC4128V-75T100E	LC4128V-75TN100E	7.5	Lead-Free 100-Pin TQFP	
		LC4128V-75T128E	LC4128V-75TN128E	7.5	Lead-Free 128-Pin TQFP	
LC4128V-75T144E	LC4128V-75TN144E	7.5	Lead-Free 144-Pin TQFP			
LC4256V	3.3V	LC4256V-3T100C	LC4256V-3TN100C	3.0	Lead-Free 100-Pin TQFP	Commercial
		LC4256V-3T144C	LC4256V-3TN144C	3.0	Lead-Free 144-Pin TQFP	
		LC4256V-3T176C	LC4256V-3TN176C	3.0	Lead-Free 176-Pin TQFP	
		LC4256V-3F256AC	LC4256V-3FN256AC	3.0	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256V-3F256BC	LC4256V-3FN256BC	3.0	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256V-5T100C	LC4256V-5TN100C	5.0	Lead-Free 100-Pin TQFP	
		LC4256V-5T144C	LC4256V-5TN144C	5.0	Lead-Free 144-Pin TQFP	
		LC4256V-5T176C	LC4256V-5TN176C	5.0	Lead-Free 176-Pin TQFP	
		LC4256V-5F256AC	LC4256V-5FN256AC	5.0	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256V-5F256BC	LC4256V-5FN256BC	5.0	Lead-Free 256-Ball fpBGA (160 I/O)	
		LC4256V-75T100C	LC4256V-75TN100C	7.5	Lead-Free 100-Pin TQFP	
		LC4256V-75T144C	LC4256V-75TN144C	7.5	Lead-Free 144-Pin TQFP	
		LC4256V-75T176C	LC4256V-75TN176C	7.5	Lead-Free 176-Pin TQFP	
		LC4256V-75F256AC	LC4256V-75FN256AC	7.5	Lead-Free 256-Ball fpBGA (128 I/O)	
		LC4256V-75F256BC	LC4256V-75FN256BC	7.5	Lead-Free 256-Ball fpBGA (160 I/O)	

ispMACH 4000V Device Family (Cont'd)

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (t _{PD})	Package	Grade			
LC4256V	3.3V	LC4256V-5T100I	LC4256V-5TN100I	5.0	Lead-Free 100-Pin TQFP	Industrial			
		LC4256V-5T144I	LC4256V-5TN144I	5.0	Lead-Free 144-Pin TQFP				
		LC4256V-5T176I	LC4256V-5TN176I	5.0	Lead-Free 176-Pin TQFP				
		LC4256V-5F256AI	LC4256V-5FN256AI	5.0	Lead-Free 256-Ball fpBGA (128 I/O)				
		LC4256V-5F256BI	LC4256V-5FN256BI	5.0	Lead-Free 256-Ball fpBGA (160 I/O)				
		LC4256V-75T100I	LC4256V-75TN100I	7.5	Lead-Free 100-Pin TQFP				
		LC4256V-75T144I	LC4256V-75TN144I	7.5	Lead-Free 144-Pin TQFP				
		LC4256V-75T176I	LC4256V-75TN176I	7.5	Lead-Free 176-Pin TQFP				
		LC4256V-75F256AI	LC4256V-75FN256AI	7.5	Lead-Free 256-Ball fpBGA (128 I/O)				
		LC4256V-75F256BI	LC4256V-75FN256BI	7.5	Lead-Free 256-Ball fpBGA (160 I/O)				
		LC4256V-10T100I	LC4256V-10TN100I	10	Lead-Free 100-Pin TQFP				
		LC4256V-10T144I	LC4256V-10TN144I	10	Lead-Free 144-Pin TQFP				
		LC4256V-10T176I	LC4256V-10TN176I	10	Lead-Free 176-Pin TQFP				
		LC4256V-10F256AI	LC4256V-10FN256AI	10	Lead-Free 256-Ball fpBGA (128 I/O)				
		LC4256V-10F256BI	LC4256V-10FN256BI	10	Lead-Free 256-Ball fpBGA (160 I/O)				
		LC4256V-75T100E	LC4256V-75TN100E	7.5	Lead-Free 100-Pin TQFP	Automotive			
		LC4256V-75T144E	LC4256V-75TN144E	7.5	Lead-Free 144-Pin TQFP				
				LC4256V-75T176E	LC4256V-75TN176E	7.5	Lead-Free 176-Pin TQFP		
LC4384V	3.3V	LC4384V-35T176C	LC4384V-35TN176C	3.5	Lead-Free 176-TQFP	Commercial			
		LC4384V-35F256C	LC4384V-35FN256C	3.5	Lead-Free 256-Ball fpBGA				
		LC4384V-5T176C	LC4384V-5TN176C	5.0	Lead-Free 176-TQFP				
		LC4384V-5F256C	LC4384V-5FN256C	5.0	Lead-Free 256-Ball fpBGA				
		LC4384V-75T176C	LC4384V-75TN176C	7.5	Lead-Free 176-TQFP				
		LC4384V-75F256C	LC4384V-75FN256C	7.5	Lead-Free 256-Ball fpBGA				
		LC4384V-5T176I	LC4384V-5TN176I	5.0	Lead-Free 176-TQFP	Industrial			
		LC4384V-5F256I	LC4384V-5FN256I	5.0	Lead-Free 256-Ball fpBGA				
		LC4384V-75T176I	LC4384V-75TN176I	7.5	Lead-Free 176-TQFP				
		LC4384V-75F256I	LC4384V-75FN256I	7.5	Lead-Free 256-Ball fpBGA				
		LC4384V-10T176I	LC4384V-10TN176I	10	Lead-Free 176-TQFP				
		LC4384V-10F256I	LC4384V-10FN256I	10	Lead-Free 256-Ball fpBGA				
		LC4512V	3.3V	LC4512V-35T176C	LC4512V-35TN176C		3.5	Lead-Free 176-Pin TQFP	Commercial
				LC4512V-35F256C	LC4512V-35FN256C		3.5	Lead-Free 256-Ball fpBGA	
LC4512V-5T176C	LC4512V-5TN176C			5.0	Lead-Free 176-Pin TQFP				
LC4512V-5F256C	LC4512V-5FN256C			5.0	Lead-Free 256-Ball fpBGA				
LC4512V-75T176C	LC4512V-75TN176C			7.5	Lead-Free 176-Pin TQFP				
LC4512V-75F256C	LC4512V-75FN256C			7.5	Lead-Free 256-Ball fpBGA	Industrial			
LC4512V-5T176I	LC4512V-5TN176I			5.0	Lead-Free 176-Pin TQFP				
LC4512V-5F256I	LC4512V-5FN256I			5.0	Lead-Free 256-Ball fpBGA				
LC4512V-75T176I	LC4512V-75TN176I			7.5	Lead-Free 176-Pin TQFP				
LC4512V-75F256I	LC4512V-75FN256I			7.5	Lead-Free 256-Ball fpBGA				
		LC4512V-10T176I	LC4512V-10TN176I	10	Lead-Free 176-Pin TQFP				
		LC4512V-10F256I	LC4512V-10FN256I	10	Lead-Free 256-Ball fpBGA				

ispXPLD 5000MC Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade
LC5256MC	1.8V	LC5256MC-4F256C	LC5256MC-4FN256C	4.0	Lead-Free 256-Ball fpBGA	Commercial
		LC5256MC-5F256C	LC5256MC-5FN256C	5.0	Lead-Free 256-Ball fpBGA	
		LC5256MC-75F256C	LC5256MC-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5256MC-5F256I	LC5256MC-5FN256I	5.0	Lead-Free 256-Ball fpBGA	
		LC5256MC-75F256I	LC5256MC-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
LC5512MC	1.8V	LC5512MC-45Q208C	LC5512MC-45QN208C	4.5	Lead-Free 208-Pin PQFP	Commercial
		LC5512MC-75Q208C	LC5512MC-75QN208C	7.5	Lead-Free 208-Pin PQFP	
		LC5512MC-45F256C	LC5512MC-45FN256C	4.5	Lead-Free 256-Ball fpBGA	
		LC5512MC-45F484C	LC5512MC-45FN484C	4.5	Lead-Free 484-Ball fpBGA	
		LC5512MC-75F256C	LC5512MC-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5512MC-75F484C	LC5512MC-75FN484C	7.5	Lead-Free 484-Ball fpBGA	Industrial
		LC5512MC-75Q208I	LC5512MC-75QN208I	7.5	Lead-Free 208-Pin PQFP	
		LC5512MC-75F256I	LC5512MC-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
		LC5512MC-75F484I	LC5512MC-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
		LC5512MC-75F484I	LC5512MC-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
LC5768MC	1.8V	LC5768MC-5F256C	LC5768MC-5FN256C	5.0	Lead-Free 256-Ball fpBGA	Commercial
		LC5768MC-5F484C	LC5768MC-5FN484C	5.0	Lead-Free 484-Ball fpBGA	
		LC5768MC-75F256C	LC5768MC-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5768MC-75F484C	LC5768MC-75FN484C	7.5	Lead-Free 484-Ball fpBGA	
		LC5768MC-75F256I	LC5768MC-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
LC51024MC	1.8V	LC51024MC-52F484C	LC51024MC-52FN484C	5.2	Lead-Free 484-Ball fpBGA	Commercial
		LC51024MC-52F672C	LC51024MC-52FN672C	5.2	Lead-Free 672-Ball fpBGA	
		LC51024MC-75F484C	LC51024MC-75FN484C	7.5	Lead-Free 484-Ball fpBGA	
		LC51024MC-75F672C	LC51024MC-75FN672C	7.5	Lead-Free 672-Ball fpBGA	
		LC51024MC-75F484I	LC51024MC-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
LC51024MC-75F672I	LC51024MC-75FN672I	7.5	Lead-Free 672-Ball fpBGA	Industrial		

ispXPLD 5000MB Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade
LC5256MB	2.5V	LC5256MB-4F256C	LC5256MB-4FN256C	4.0	Lead-Free 256-Ball fpBGA	Commercial
		LC5256MB-5F256C	LC5256MB-5FN256C	5.0	Lead-Free 256-Ball fpBGA	
		LC5256MB-75F256C	LC5256MB-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5256MB-5F256I	LC5256MB-5FN256I	5.0	Lead-Free 256-Ball fpBGA	
		LC5256MB-75F256I	LC5256MB-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
LC5512MB	2.5V	LC5512MB-45Q208C	LC5512MB-45QN208C	4.5	Lead-Free 208-Pin PQFP	Commercial
		LC5512MB-75Q208C	LC5512MB-75QN208C	7.5	Lead-Free 208-Pin PQFP	
		LC5512MB-45F256C	LC5512MB-45FN256C	4.5	Lead-Free 256-Ball fpBGA	
		LC5512MB-45F484C	LC5512MB-45FN484C	4.5	Lead-Free 484-Ball fpBGA	
		LC5512MB-75F256C	LC5512MB-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5512MB-75F484C	LC5512MB-75FN484C	7.5	Lead-Free 484-Ball fpBGA	Industrial
		LC5512MB-75Q208I	LC5512MB-75QN208I	7.5	Lead-Free 208-Pin PQFP	
		LC5512MB-75F256I	LC5512MB-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
		LC5512MB-75F484I	LC5512MB-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
		LC5512MB-75F484I	LC5512MB-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
LC5768MB	2.5V	LC5768MB-5F256C	LC5768MB-5FN256C	5.0	Lead-Free 256-Ball fpBGA	Commercial
		LC5768MB-5F484C	LC5768MB-5FN484C	5.0	Lead-Free 484-Ball fpBGA	
		LC5768MB-75F256C	LC5768MB-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5768MB-75F484C	LC5768MB-75FN484C	7.5	Lead-Free 484-Ball fpBGA	
		LC5768MB-75F256I	LC5768MB-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
LC51024MB	2.5V	LC51024MB-52F484C	LC51024MB-52FN484C	5.2	Lead-Free 484-Ball fpBGA	Commercial
		LC51024MB-52F672C	LC51024MB-52FN672C	5.2	Lead-Free 672-Ball fpBGA	
		LC51024MB-75F484C	LC51024MB-75FN484C	7.5	Lead-Free 484-Ball fpBGA	
		LC51024MB-75F672C	LC51024MB-75FN672C	7.5	Lead-Free 672-Ball fpBGA	
		LC51024MB-75F484I	LC51024MB-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
LC51024MB-75F672I	LC51024MB-75FN672I	7.5	Lead-Free 672-Ball fpBGA	Industrial		

ispXPLD 5000MV Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade
LC5256MV	3.3V	LC5256MV-4F256C	LC5256MV-4FN256C	4.0	Lead-Free 256-Ball fpBGA	Commercial
		LC5256MV-5F256C	LC5256MV-5FN256C	5.0	Lead-Free 256-Ball fpBGA	
		LC5256MV-75F256C	LC5256MV-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5256MV-5F256I	LC5256MV-5FN256I	5.0	Lead-Free 256-Ball fpBGA	
		LC5256MV-75F256I	LC5256MV-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
LC5512MV	3.3V	LC5512MV-45Q208C	LC5512MV-45QN208C	4.5	Lead-Free 208-Pin PQFP	Commercial
		LC5512MV-75Q208C	LC5512MV-75QN208C	7.5	Lead-Free 208-Pin PQFP	
		LC5512MV-45F256C	LC5512MV-45FN256C	4.5	Lead-Free 256-Ball fpBGA	
		LC5512MV-45F484C	LC5512MV-45FN484C	4.5	Lead-Free 484-Ball fpBGA	
		LC5512MV-75F256C	LC5512MV-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5512MV-75F484C	LC5512MV-75FN484C	7.5	Lead-Free 484-Ball fpBGA	Industrial
		LC5512MV-75Q208I	LC5512MV-75QN208I	7.5	Lead-Free 208-Pin PQFP	
		LC5512MV-75F256I	LC5512MV-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
		LC5512MV-75F484I	LC5512MV-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
		LC5512MV-75F484I	LC5512MV-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
LC5768MV	3.3V	LC5768MV-5F256C	LC5768MV-5FN256C	5.0	Lead-Free 256-Ball fpBGA	Commercial
		LC5768MV-5F484C	LC5768MV-5FN484C	5.0	Lead-Free 484-Ball fpBGA	
		LC5768MV-75F256C	LC5768MV-75FN256C	7.5	Lead-Free 256-Ball fpBGA	
		LC5768MV-75F484C	LC5768MV-75FN484C	7.5	Lead-Free 484-Ball fpBGA	
		LC5768MV-75F256I	LC5768MV-75FN256I	7.5	Lead-Free 256-Ball fpBGA	
LC51024MV	3.3V	LC51024MV-52F484C	LC51024MV-52FN484C	5.2	Lead-Free 484-Ball fpBGA	Commercial
		LC51024MV-52F672C	LC51024MV-52FN672C	5.2	Lead-Free 672-Ball fpBGA	
		LC51024MV-75F484C	LC51024MV-75FN484C	7.5	Lead-Free 484-Ball fpBGA	
		LC51024MV-75F672C	LC51024MV-75FN672C	7.5	Lead-Free 672-Ball fpBGA	
		LC51024MV-75F484I	LC51024MV-75FN484I	7.5	Lead-Free 484-Ball fpBGA	
LC51024MV-75F672I	LC51024MV-75FN672I	7.5	Lead-Free 672-Ball fpBGA	Industrial		

ispXPGA Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade
LFX125C	1.8V	LFX125C-04F256C	LFX125C-04FN256C	4	Lead-Free 256-Ball fpBGA	Commercial
		LFX125C-03F256C	LFX125C-03FN256C	3	Lead-Free 256-Ball fpBGA	
		LFX125C-04FH516C	LFX125C-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	
		LFX125C-03FH516C	LFX125C-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	
LFX200C	1.8V	LFX200C-04F256C	LFX200C-04FN256C	4	Lead-Free 256-Ball fpBGA	Commercial
		LFX200C-03F256C	LFX200C-03FN256C	3	Lead-Free 256-Ball fpBGA	
		LFX200C-04FH516C	LFX200C-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	
		LFX200C-03FH516C	LFX200C-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	
LFX500C	1.8V	LFX500C-04FH516C	LFX500C-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Commercial
		LFX500C-04F256C	LFX500C-04FN256C ¹	3	Lead-Free 516-Ball fpBGA	
		LFX500C-04F900C	LFX500C-04FN900C	4	Lead-Free 900-Ball fpBGA	
		LFX500C-03F900C	LFX500C-03FN900C	3	Lead-Free 900-Ball fpBGA	
LX1200C	1.8V	LFX1200C-04FE680C	LFX1200C-04FEN680C ²	4	Lead-Free 680-Ball fpSBGA	Commercial
		LFX1200C-03FE680C	LFX1200C-03FEN680C ²	3	Lead-Free 680-Ball fpSBGA	
LFX125B	2.5/3.3V	LFX125B-05F256C	LFX125B-05FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFX125B-04F256C	LFX125B-04FN256C	4	Lead-Free 256-Ball fpBGA	
		LFX125B-03F256C	LFX125B-03FN256C	3	Lead-Free 256-Ball fpBGA	
		LFX125B-05FH516C	LFX125B-05FN516C ¹	5	Lead-Free 516-Ball fpBGA	
		LFX125B-04FH516C	LFX125B-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	
		LFX125B-03FH516C	LFX125B-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	
LFX200B	2.5/3.3V	LFX200B-05F256C	LFX200B-05FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFX200B-04F256C	LFX200B-04FN256C	4	Lead-Free 256-Ball fpBGA	
		LFX200B-03F256C	LFX200B-03FN256C	3	Lead-Free 256-Ball fpBGA	
		LFX200B-05FH516C	LFX200B-05FN516C ¹	5	Lead-Free 516-Ball fpBGA	
		LFX200B-04FH516C	LFX200B-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	
		LFX200B-03FH516C	LFX200B-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	
LFX500B	2.5/3.3V	LFX500B-05F900C	LFX500B-05FN900C	5	Lead-Free 900-Ball fpBGA	Commercial
		LFX500B-04F900C	LFX500B-04FN900C	4	Lead-Free 900-Ball fpBGA	
		LFX500B-03F900C	LFX500B-03FN900C	3	Lead-Free 900-Ball fpBGA	
		LFX500B-05FH516C	LFX500B-05FN516C ¹	5	Lead-Free 516-Ball fpBGA	
		LFX500B-04FH516C	LFX500B-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	
		LFX500B-03FH516C	LFX500B-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	
LFX1200B	2.5/3.3V	LFX1200B-05FE680C	LFX1200B-05FEN680C ²	5	Lead-Free 680-Ball fpSBGA	Commercial
		LFX1200B-04FE680C	LFX1200B-04FEN680C ²	4	Lead-Free 680-Ball fpSBGA	
		LFX1200B-03FE680C	LFX1200B-03FEN680C ²	3	Lead-Free 680-Ball fpSBGA	

1. Pb-free version is supported *without heat spreader*. Theta J values (Θ_{JA} and Θ_{JC}) are different between the standard package and Pb-free package. Refer to Thermal Management document on www.latticesemi.com for more detail.

2. MSL4

ispXPGA "E-Series" Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed (tPD)	Package	Grade
LFX125EC	1.8V	LFX125EC-04F256C	LFX125EC-04FN256C	4	Lead-Free 256-Ball fpBGA	Commercial
		LFX125EC-03F256C	LFX125EC-03FN256C	3	Lead-Free 256-Ball fpBGA	Industrial
		LFX125EC-03F256I	LFX125EC-03FN256I	3	Lead-Free 256-Ball fpBGA	Commercial
		LFX125EC-04FH516C	LFX125EC-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Industrial
		LFX125EC-03FH516C	LFX125EC-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	Commercial
LFX200EC	1.8V	LFX200EC-04F256C	LFX200EC-04FN256C	4	Lead-Free 256-Ball fpBGA	Commercial
		LFX200EC-03F256C	LFX200EC-03FN256C	3	Lead-Free 256-Ball fpBGA	Industrial
		LFX200EC-03F256I	LFX200EC-03FN256I	3	Lead-Free 256-Ball fpBGA	Commercial
		LFX200EC-04FN516C	LFX200EC-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Industrial
		LFX200EC-03FN516C	LFX200EC-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	Commercial
LFX500EC	1.8V	LFX500EC-04FH516C	LFX500EC-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Commercial
		LFX500EC-03FH516C	LFX500EC-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	Industrial
		LFX500EC-03FH516I	LFX500EC-03FN516I ¹	3	Lead-Free 516-Ball fpBGA	Commercial
		LFX500EC-04F900C	LFX500EC-04FN900C	4	Lead-Free 900-Ball fpBGA	Industrial
		LFX500EC-03F900C	LFX500EC-03FN900C	3	Lead-Free 900-Ball fpBGA	Commercial
LFX1200EC	1.8V	LFX1200EC-04FE680C	LFX1200EC-04FEN680C ²	4	Lead-Free 680-Ball fpSBGA	Commercial
		LFX1200EC-03FE680C	LFX1200EC-03FEN680C ²	3	Lead-Free 680-Ball fpSBGA	Industrial
		LFX1200EC-03FE680I	LFX1200EC-03FEN680I ²	3	Lead-Free 680-Ball fpSBGA	Commercial
LFX125EB	2.5/3.3V	LFX125EB-05F256C	LFX125EB-05FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFX125EB-04F256C	LFX125EB-04FN256C	4	Lead-Free 256-Ball fpBGA	Industrial
		LFX125EB-03F256C	LFX125EB-03FN256C	3	Lead-Free 256-Ball fpBGA	Commercial
		LFX125EB-04F256I	LFX125EB-04FN256I	4	Lead-Free 256-Ball fpBGA	Industrial
		LFX125EB-03F256I	LFX125EB-03FN256I	3	Lead-Free 256-Ball fpBGA	Commercial
		LFX125EB-05FH516C	LFX125EB-05FN516C ¹	5	Lead-Free 516-Ball fpBGA	Industrial
		LFX125EB-04FH516C	LFX125EB-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Commercial
		LFX125EB-03FH516C	LFX125EB-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	Industrial
		LFX125EB-04FH516I	LFX125EB-04FN516I ¹	4	Lead-Free 516-Ball fpBGA	Commercial
LFX200EB	2.5/3.3V	LFX200EB-05F256C	LFX200EB-05FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFX200EB-04F256C	LFX200EB-04FN256C	4	Lead-Free 256-Ball fpBGA	Industrial
		LFX200EB-03F256C	LFX200EB-03FN256C	3	Lead-Free 256-Ball fpBGA	Commercial
		LFX200EB-04F256I	LFX200EB-04FN256I	4	Lead-Free 256-Ball fpBGA	Industrial
		LFX200EB-03F256I	LFX200EB-03FN256I	3	Lead-Free 256-Ball fpBGA	Commercial
		LFX200EB-05FH516C	LFX200EB-05FN516C ¹	5	Lead-Free 516-Ball fpBGA	Industrial
		LFX200EB-04FH516C	LFX200EB-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Commercial
		LFX200EB-03FH516C	LFX200EB-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	Industrial
LFX500EB	2.5/3.3V	LFX500EB-05F900C	LFX500EB-05FN900C	5	Lead-Free 900-Ball fpBGA	Commercial
		LFX500EB-04F900C	LFX500EB-04FN900C	4	Lead-Free 900-Ball fpBGA	Industrial
		LFX500EB-03F900C	LFX500EB-03FN900C	3	Lead-Free 900-Ball fpBGA	Commercial
		LFX500EB-04F900I	LFX500EB-04FN900I	4	Lead-Free 900-Ball fpBGA	Industrial
		LFX500EB-03F900I	LFX500EB-03FN900I	3	Lead-Free 900-Ball fpBGA	Commercial
		LFX500EB-05FH516C	LFX500EB-05FN516C ¹	5	Lead-Free 516-Ball fpBGA	Industrial
		LFX500EB-04FH516C	LFX500EB-04FN516C ¹	4	Lead-Free 516-Ball fpBGA	Commercial
		LFX500EB-03FH516C	LFX500EB-03FN516C ¹	3	Lead-Free 516-Ball fpBGA	Industrial
		LFX500EB-04FH516I	LFX500EB-04FN516I ¹	4	Lead-Free 516-Ball fpBGA	Commercial
LFX1200EB	2.5/3.3V	LFX1200EB-05FE680C	LFX1200EB-05FEN680C ²	5	Lead-Free 680-Ball fpSBGA	Commercial
		LFX1200EB-03FE680C	LFX1200EB-03FEN680C ²	4	Lead-Free 680-Ball fpSBGA	Industrial
		LFX1200EB-04FE680C	LFX1200EB-04FEN680C ²	3	Lead-Free 680-Ball fpSBGA	Commercial
		LFX1200EB-04FE680I	LFX1200EB-04FEN680I ²	4	Lead-Free 680-Ball fpSBGA	Industrial
		LFX1200EB-03FE680I	LFX1200EB-03FEN680I ²	3	Lead-Free 680-Ball fpSBGA	Commercial

1. Pb-free version is supported *without heat spreader*. Theta J values (Θ_{JA} and Θ_{JC}) are different between the standard package and Pb-free package. Refer to Thermal Management document on www.latticesemi.com for more detail.

2. MSL4

ispPAC-POWR Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package	Grade
ispPAC-POWR1208	2.25V - 5.5V	ispPAC-POWR1208-01T44I	ispPAC-POWR1208-01TN44I	-	Lead-Free 44-Pin TQFP	Industrial
		ispPAC-POWR1208-01T44E	ispPAC-POWR1208-01TN44E	-	Lead-Free 44-Pin TQFP	Automotive
ispPAC-POWR604	2.25V - 5.5V	ispPAC-POWR604-01T44I	ispPAC-POWR604-01TN44I	-	Lead-Free 44-Pin TQFP	Industrial
		ispPAC-POWR604-01T44E	ispPAC-POWR604-01TN44E	-	Lead-Free 44-Pin TQFP	Automotive
ispPAC-POWR1208P1	2.7V - 5.5V	ispPAC-POWR1208P1-01T44I	ispPAC-POWR1208P1-01TN44I	-	Lead-Free 44-Pin TQFP	Industrial

ispClock Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package	Grade
ispPAC-CLK5510	3.3V	ispPAC-CLK5510V-01T48C	ispPAC-CLK5510V-01TN48C	-	Lead-Free 48-Pin TQFP	Commercial
		ispPAC-CLK5510V-01T48I	ispPAC-CLK5510V-01TN48I	-	Lead-Free 48-Pin TQFP	Industrial
ispPAC-CLK5520	3.3V	ispPAC-CLK5520V-01T100C	ispPAC-CLK5520V-01TN100C	-	Lead-Free 100-Pin TQFP	Commercial
		ispPAC-CLK5520V-01T100I	ispPAC-CLK5520V-01TN100I	-	Lead-Free 100-Pin TQFP	Industrial
ispPAC-CLK5610	3.3V	ispPAC-CLK5610V-01T48C	ispPAC-CLK5610V-01TN48C	-	Lead-Free 48-Pin TQFP	Commercial
		ispPAC-CLK5610V-01T48I	ispPAC-CLK5610V-01TN48I	-	Lead-Free 48-Pin TQFP	Industrial
ispPAC-CLK5620	3.3V	ispPAC-CLK5620V-01T100C	ispPAC-CLK5620V-01TN100C	-	Lead-Free 100-Pin TQFP	Commercial
		ispPAC-CLK5620V-01T100I	ispPAC-CLK5620V-01TN100I	-	Lead-Free 100-Pin TQFP	Industrial

ORL10G Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package	Grade
ORL10G	1.5V	ORL10G-3BM680C	ORL10G-3BMN680C	3	Lead-Free 680-PBFAM (fpBGA)	Commercial
		ORL10G-2BM680C	ORL10G-2BMN680C	2	Lead-Free 680-PBFAM (fpBGA)	
		ORL10G-1BM680C	ORL10G-1BMN680C	1	Lead-Free 680-PBFAM (fpBGA)	
		ORL10G-2BM680I	ORL10G-2BMN680I	2	Lead-Free 680-PBFAM (fpBGA)	Industrial
		ORL10G-1BM680I	ORL10G-1BMN680I	1	Lead-Free 680-PBFAM (fpBGA)	

ORT8850L/H Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package	Grade
ORT8850L	1.5V	ORT8850L-3BM680C	ORT8850L-3BMN680C	3	Lead-Free 680-PBFAM (fpBGA)	Commercial
		ORT8850L-2BM680C	ORT8850L-2BMN680C	2	Lead-Free 680-PBFAM (fpBGA)	
		ORT8850L-1BM680C	ORT8850L-1BMN680C	1	Lead-Free 680-PBFAM (fpBGA)	
		ORT8850L-2BM680I	ORT8850L-2BMN680I	2	Lead-Free 680-PBFAM (fpBGA)	Industrial
		ORT8850L-1BM680I	ORT8850L-1BMN680I	1	Lead-Free 680-PBFAM (fpBGA)	
ORT8850H	1.5V	ORT8850H-2BM680C	ORT8850H-2BMN680C	2	Lead-Free 680-PBFAM (fpBGA)	Commercial
		ORT8850H-1BM680C	ORT8850H-1BMN680C	1	Lead-Free 680-PBFAM (fpBGA)	Commercial
		ORT8850H-1BM680I	ORT8850H-1BMN680I	1	Lead-Free 680-PBFAM (fpBGA)	Industrial

ORSO82G5/42G5 Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package Type	Grade
ORSO82G5	1.5V	ORSO82G5-3BM680C	ORSO82G5-3FN680C ¹	3	Lead-Free 680-PBFAM (fpBGA)	Commercial
		ORSO82G5-2BM680C	ORSO82G5-2FN680C ¹	2	Lead-Free 680-PBFAM (fpBGA)	
		ORSO82G5-1BM680C	ORSO82G5-1FN680C ¹	1	Lead-Free 680-PBFAM (fpBGA)	
		ORSO82G5-2BM680I	ORSO82G5-2FN680I ¹	2	Lead-Free 680-PBFAM (fpBGA)	Industrial
		ORSO82G5-1BM680I	ORSO82G5-1FN680I ¹	1	Lead-Free 680-PBFAM (fpBGA)	
ORSO42G5	1.5V	ORSO42G5-3BM484C	ORSO42G5-3BMN484C	3	Lead-Free 484-PBFAM (fpBGA)	Commercial
		ORSO42G5-2BM484C	ORSO42G5-2BMN484C	2	Lead-Free 484-PBFAM (fpBGA)	
		ORSO42G5-1BM484C	ORSO42G5-1BMN484C	1	Lead-Free 484-PBFAM (fpBGA)	
		ORSO42G5-2BM484I	ORSO42G5-2BMN484I	2	Lead-Free 484-PBFAM (fpBGA)	Industrial
		ORSO42G5-1BM484I	ORSO42G5-1BMN484I	1	Lead-Free 484-PBFAM (fpBGA)	

1. Pb-free version is supported *without heat spreader*. Theta J values (Θ_{JA} and Θ_{JC}) are different between the standard package and Pb-free package. Refer to Thermal Management document on www.latticesemi.com for more detail.

ORT82G5/42G5 Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package Type	Grade
ORT82G5	1.5V	ORT82G5-3BM680C	ORT82G5-3FN680C ¹	3	Lead-Free 680-PBFAM (fpBGA)	Commercial
		ORT82G5-2BM680C	ORT82G5-2FN680C ¹	2	Lead-Free 680-PBFAM (fpBGA)	
		ORT82G5-1BM680C	ORT82G5-1FN680C ¹	1	Lead-Free 680-PBFAM (fpBGA)	
		ORT82G5-2BM680I	ORT82G5-2FN680I ¹	2	Lead-Free 680-PBFAM (fpBGA)	Industrial
		ORT82G5-1BM680I	ORT82G5-1FN680I ¹	1	Lead-Free 680-PBFAM (fpBGA)	
ORT42G5	1.5V	ORT42G5-3BM484C	ORT42G5-3BMN484C	3	Lead-Free 484-PBFAM (fpBGA)	Commercial
		ORT42G5-2BM484C	ORT42G5-2BMN484C	2	Lead-Free 484-PBFAM (fpBGA)	
		ORT42G5-1BM484C	ORT42G5-1BMN484C	1	Lead-Free 484-PBFAM (fpBGA)	
		ORT42G5-2BM484I	ORT42G5-2BMN484I	2	Lead-Free 484-PBFAM (fpBGA)	Industrial
		ORT42G5-1BM484I	ORT42G5-1BMN484I	1	Lead-Free 484-PBFAM (fpBGA)	

1. Pb-free version is supported *without heat spreader*. Theta J values (Θ_{JA} and Θ_{JC}) are different between the standard package and Pb-free package. Refer to Thermal Management document on www.latticesemi.com for more detail.

ORSPI4 Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package Type	Grade
ORSPI4	1.5V	ORSPI4-3F1156C	ORSPI4-3FN1156C	3	Lead-Free 1156-Ball fpBGA	Commercial
		ORSPI4-2F1156C	ORSPI4-2FN1156C	2	Lead-Free 1156-Ball fpBGA	
		ORSPI4-1F1156C	ORSPI4-1FN1156C	1	Lead-Free 1156-Ball fpBGA	
		ORSPI4-2F1156I	ORSPI4-2FN1156I	2	Lead-Free 1156-Ball fpBGA	Industrial
		ORSPI4-1F1156I	ORSPI4-1FN1156I	1	Lead-Free 1156-Ball fpBGA	

LatticeEC Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package Type	Grade
EC1	1.2	LFEC1E-5T144C	LFEC1E-5TN144C	5	Lead-Free 144-Pin TQFP	Commercial
		LFEC1E-5T100C	LFEC1E-5TN100C	5	Lead-Free 100-Pin TQFP	
		LFEC1E-4T144C	LFEC1E-4TN144C	4	Lead-Free 144-Pin TQFP	
		LFEC1E-4T100C	LFEC1E-4TN100C	4	Lead-Free 100-Pin TQFP	
		LFEC1E-3T144C	LFEC1E-3TN144C	3	Lead-Free 144-Pin TQFP	
		LFEC1E-3T100C	LFEC1E-3TN100C	3	Lead-Free 100-Pin TQFP	
		LFEC1E-4T144I	LFEC1E-4TN144I	4	Lead-Free 144-Pin TQFP	Industrial
		LFEC1E-4T100I	LFEC1E-4TN100I	4	Lead-Free 100-Pin TQFP	
		LFEC1E-3T144I	LFEC1E-3TN144I	3	Lead-Free 144-Pin TQFP	
EC3	1.2	LFEC3E-5F256C	LFEC3E-5FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFEC3E-5T144C	LFEC3E-5TN144C	5	Lead-Free 144-Pin TQFP	
		LFEC3E-5T100C	LFEC3E-5TN100C	5	Lead-Free 100-Pin TQFP	
		LFEC3E-4F256C	LFEC3E-4FN256C	4	Lead-Free 256-Ball fpBGA	
		LFEC3E-4T144C	LFEC3E-4TN144C	4	Lead-Free 144-Pin TQFP	
		LFEC3E-4T100C	LFEC3E-4TN100C	4	Lead-Free 100-Pin TQFP	
		LFEC3E-3F256C	LFEC3E-3FN256C	3	Lead-Free 256-Ball fpBGA	Industrial
		LFEC3E-3T144C	LFEC3E-3TN144C	3	Lead-Free 144-Pin TQFP	
		LFEC3E-3T100C	LFEC3E-3TN100C	3	Lead-Free 100-Pin TQFP	
		LFEC3E-4F256I	LFEC3E-4FN256I	4	Lead-Free 256-Ball fpBGA	
		LFEC3E-4T144I	LFEC3E-4TN144I	4	Lead-Free 144-Pin TQFP	
		LFEC3E-4T100I	LFEC3E-4TN100I	4	Lead-Free 100-Pin TQFP	
		LFEC3E-3F256I	LFEC3E-3FN256I	3	Lead-Free 256-Ball fpBGA	
		LFEC3E-3T144I	LFEC3E-3TN144I	3	Lead-Free 144-Pin TQFP	
		LFEC3E-3T100I	LFEC3E-3TN100I	3	Lead-Free 100-Pin TQFP	
EC6	1.2	LFEC6E-5F256C	LFEC6E-5FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFEC6E-5T144C	LFEC6E-5TN144C	5	Lead-Free 144-Pin TQFP	
		LFEC6E-4F484C	LFEC6E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFEC6E-4F256C	LFEC6E-4FN256C	4	Lead-Free 256-Ball fpBGA	
		LFEC6E-4T144C	LFEC6E-4TN144C	4	Lead-Free 144-Pin TQFP	
		LFEC6E-3F484C	LFEC6E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFEC6E-3F256C	LFEC6E-3FN256C	3	Lead-Free 256-Ball fpBGA	Industrial
		LFEC6E-3T144C	LFEC6E-3TN144C	3	Lead-Free 144-Pin TQFP	
		LFEC6E-4F484I	LFEC6E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFEC6E-4F256I	LFEC6E-4FN256I	4	Lead-Free 256-Ball fpBGA	
		LFEC6E-4T144I	LFEC6E-4TN144I	4	Lead-Free 144-Pin TQFP	
		LFEC6E-3F484I	LFEC6E-3FN484I	3	Lead-Free 484-Ball fpBGA	
		LFEC6E-3F256I	LFEC6E-3FN256I	3	Lead-Free 256-Ball fpBGA	
		LFEC6E-3T144I	LFEC6E-3TN144I	3	Lead-Free 144-Pin TQFP	
		LFEC6E-3T100I	LFEC6E-3TN100I	3	Lead-Free 100-Pin TQFP	
EC10	1.2	LFEC10E-5F256C	LFEC10E-5FN256C	5	Lead-Free 256-Ball fpBGA	Commercial
		LFEC10E-4F484C	LFEC10E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFEC10E-4F256C	LFEC10E-4FN256C	4	Lead-Free 256-Ball fpBGA	
		LFEC10E-3F484C	LFEC10E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFEC10E-3F256C	LFEC10E-3FN256C	3	Lead-Free 256-Ball fpBGA	
		LFEC10E-4F484I	LFEC10E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFEC10E-4F256I	LFEC10E-4FN256I	4	Lead-Free 256-Ball fpBGA	Industrial
		LFEC10E-3F484I	LFEC10E-3FN484I	3	Lead-Free 484-Ball fpBGA	
		LFEC10E-3F256I	LFEC10E-3FN256I	3	Lead-Free 256-Ball fpBGA	
EC15	1.2	LFEC15E-5F484C	LFEC15E-5FN484C	5	Lead-Free 484-Ball fpBGA	Commercial
		LFEC15E-5F256C	LFEC15E-5FN256C	5	Lead-Free 256-Ball fpBGA	
		LFEC15E-4F484C	LFEC15E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFEC15E-4F256C	LFEC15E-4FN256C	4	Lead-Free 256-Ball fpBGA	
		LFEC15E-3F484C	LFEC15E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFEC15E-3F256C	LFEC15E-3FN256C	3	Lead-Free 256-Ball fpBGA	
		LFEC15E-4F484I	LFEC15E-4FN484I	4	Lead-Free 484-Ball fpBGA	Industrial
		LFEC15E-4F256I	LFEC15E-4FN256I	4	Lead-Free 256-Ball fpBGA	
		LFEC15E-3F484I	LFEC15E-3FN484I	3	Lead-Free 484-Ball fpBGA	
EC20	1.2V	LFEC20E-5F672C	LFEC20E-5FN672C	5	Lead-Free 672-Ball fpBGA	Commercial
		LFEC20E-5F484C	LFEC20E-5FN484C	5	Lead-Free 484-Ball fpBGA	
		LFEC20E-4F672C	LFEC20E-4FN672C	4	Lead-Free 672-Ball fpBGA	
		LFEC20E-4F484C	LFEC20E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFEC20E-3F672C	LFEC20E-3FN672C	3	Lead-Free 672-Ball fpBGA	
		LFEC20E-3F484C	LFEC20E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFEC20E-4F672I	LFEC20E-4FN672I	4	Lead-Free 672-Ball fpBGA	Industrial
		LFEC20E-4F484I	LFEC20E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFEC20E-3F672I	LFEC20E-3FN672I	3	Lead-Free 672-Ball fpBGA	
EC33	1.2V	LFEC33E-5F672C	LFEC33E-5FN672C	5	Lead-Free 672-Ball fpBGA	Commercial
		LFEC33E-5F484C	LFEC33E-5FN484C	5	Lead-Free 484-Ball fpBGA	
		LFEC33E-4F672C	LFEC33E-4FN672C	4	Lead-Free 672-Ball fpBGA	
		LFEC33E-4F484C	LFEC33E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFEC33E-3F672C	LFEC33E-3FN672C	3	Lead-Free 672-Ball fpBGA	
		LFEC33E-3F484C	LFEC33E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFEC33E-4F672I	LFEC33E-4FN672I	4	Lead-Free 672-Ball fpBGA	Industrial
		LFEC33E-4F484I	LFEC33E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFEC33E-3F672I	LFEC33E-3FN672I	3	Lead-Free 672-Ball fpBGA	
		LFEC33E-3F484I	LFEC33E-3FN484I	3	Lead-Free 484-Ball fpBGA	

LatticeECP Device Family

Product Family	Voltage	Standard Ordering Part Number	Pb-Free Ordering Part Number	Speed Grade	Package Type	Grade
EC6	1.2	LFCEP6E-5F484C	LFCEP6E-5FN484C	5	Lead-Free 484-Ball fpBGA	Commercial
		LFCEP6E-5F256C	LFCEP6E-5FN256C	5	Lead-Free 256-Ball fpBGA	
		LFCEP6E-5T144C	LFCEP6E-5TN144C	5	Lead-Free 144-Pin TQFP	
		LFCEP6E-4F484C	LFCEP6E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFCEP6E-4F256C	LFCEP6E-4FN256C	4	Lead-Free 256-Ball fpBGA	
		LFCEP6E-4T144C	LFCEP6E-4TN144C	4	Lead-Free 144-Pin TQFP	
		LFCEP6E-3F484C	LFCEP6E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFCEP6E-3F256C	LFCEP6E-3FN256C	3	Lead-Free 256-Ball fpBGA	
		LFCEP6E-3T144C	LFCEP6E-3TN144C	3	Lead-Free 144-Pin TQFP	Industrial
		LFCEP6E-4F484I	LFCEP6E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFCEP6E-4F256I	LFCEP6E-4FN256I	4	Lead-Free 256-Ball fpBGA	
		LFCEP6E-4T144I	LFCEP6E-4TN144I	4	Lead-Free 144-Pin TQFP	
		LFCEP6E-3F484I	LFCEP6E-3FN484I	3	Lead-Free 484-Ball fpBGA	
		LFCEP6E-3F256I	LFCEP6E-3FN256I	3	Lead-Free 256-Ball fpBGA	
		LFCEP6E-3T144I	LFCEP6E-3TN144I	3	Lead-Free 144-Pin TQFP	
		ECP10	1.2	LFCEP10E-5F484C	LFCEP10E-5FN484C	
LFCEP10E-5F256C	LFCEP10E-5FN256C			5	Lead-Free 256-Ball fpBGA	
LFCEP10E-4F484C	LFCEP10E-4FN484C			4	Lead-Free 484-Ball fpBGA	
LFCEP10E-4F256C	LFCEP10E-4FN256C			4	Lead-Free 256-Ball fpBGA	
LFCEP10E-3F484C	LFCEP10E-3FN484C			3	Lead-Free 484-Ball fpBGA	
LFCEP10E-3F256C	LFCEP10E-3FN256C			3	Lead-Free 256-Ball fpBGA	Industrial
LFCEP10E-4F484I	LFCEP10E-4FN484I			4	Lead-Free 484-Ball fpBGA	
LFCEP10E-4F256I	LFCEP10E-4FN256I			4	Lead-Free 256-Ball fpBGA	
LFCEP10E-3F484I	LFCEP10E-3FN484I			3	Lead-Free 484-Ball fpBGA	
LFCEP10E-3F256I	LFCEP10E-3FN256I			3	Lead-Free 256-Ball fpBGA	
ECP15	1.2	LFCEP15E-5F484C	LFCEP15E-5FN484C	5	Lead-Free 484-Ball fpBGA	Commercial
		LFCEP15E-5F256C	LFCEP15E-5FN256C	5	Lead-Free 256-Ball fpBGA	
		LFCEP15E-4F484C	LFCEP15E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFCEP15E-4F256C	LFCEP15E-4FN256C	4	Lead-Free 256-Ball fpBGA	
		LFCEP15E-3F484C	LFCEP15E-3FN484C	3	Lead-Free 484-Ball fpBGA	
		LFCEP15E-3F256C	LFCEP15E-3FN256C	3	Lead-Free 256-Ball fpBGA	Industrial
		LFCEP15E-4F484I	LFCEP15E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFCEP15E-4F256I	LFCEP15E-4FN256I	4	Lead-Free 256-Ball fpBGA	
		LFCEP15E-3F484I	LFCEP15E-3FN484I	3	Lead-Free 484-Ball fpBGA	
		LFCEP15E-3F256I	LFCEP15E-3FN256I	3	Lead-Free 256-Ball fpBGA	
ECP20	1.2V	LFCEP20E-5F672C	LFCEP20E-5FN672C	5	Lead-Free 672-Ball fpBGA	Commercial
		LFCEP20E-5F484C	LFCEP20E-5FN484C	5	Lead-Free 484-Ball fpBGA	
		LFCEP20E-4F672C	LFCEP20E-4FN672C	4	Lead-Free 672-Ball fpBGA	
		LFCEP20E-4F484C	LFCEP20E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFCEP20E-3F672C	LFCEP20E-3FN672C	3	Lead-Free 672-Ball fpBGA	
		LFCEP20E-3F484C	LFCEP20E-3FN484C	3	Lead-Free 484-Ball fpBGA	Industrial
		LFCEP20E-4F672I	LFCEP20E-4FN672I	4	Lead-Free 672-Ball fpBGA	
		LFCEP20E-4F484I	LFCEP20E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFCEP20E-3F672I	LFCEP20E-3FN672I	3	Lead-Free 672-Ball fpBGA	
		LFCEP20E-3F484I	LFCEP20E-3FN484I	3	Lead-Free 484-Ball fpBGA	
ECP33	1.2V	LFCEP33E-5F672C	LFCEP33E-5FN672C	5	Lead-Free 672-Ball fpBGA	Commercial
		LFCEP33E-5F484C	LFCEP33E-5FN484C	5	Lead-Free 484-Ball fpBGA	
		LFCEP33E-4F672C	LFCEP33E-4FN672C	4	Lead-Free 672-Ball fpBGA	
		LFCEP33E-4F484C	LFCEP33E-4FN484C	4	Lead-Free 484-Ball fpBGA	
		LFCEP33E-3F672C	LFCEP33E-3FN672C	3	Lead-Free 672-Ball fpBGA	
		LFCEP33E-3F484C	LFCEP33E-3FN484C	3	Lead-Free 484-Ball fpBGA	Industrial
		LFCEP33E-4F672I	LFCEP33E-4FN672I	4	Lead-Free 672-Ball fpBGA	
		LFCEP33E-4F484I	LFCEP33E-4FN484I	4	Lead-Free 484-Ball fpBGA	
		LFCEP33E-3F672I	LFCEP33E-3FN672I	3	Lead-Free 672-Ball fpBGA	
		LFCEP33E-3F484I	LFCEP33E-3FN484I	3	Lead-Free 484-Ball fpBGA	