



September 7, 2010

Subject: PCN# 13A-10, Notification of Intent to Discontinue Select Mature Devices

Dear Lattice Customer,

In accordance with our Product Change Notification (PCN) policy, Lattice is providing this notification of our intent to discontinue select mature devices. One of Lattice's fabrication partners is closing one of its facilities during 2011. This fab closure will affect several select mature product families including GAL[®], ispLSI[®] 1000, ispPAC[®]-POWR1208 and ispPAC-POWR1208P1 products.

As a number of these product families still enjoy moderate customer demand, our intention is to support a longer than usual Last-Time-Ship (LTS) window through the end of 2014. Our desire is to provide supplies of these products to our customers for the next four years to help minimize the customer impact.

AFFECTED PRODUCTS

The Ordering Part Numbers (OPNs) affected by this PCN, along with the recommended replacement alternatives, are listed in the Exhibit "A" (also available in an Excel spreadsheet [here](#)). This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed in the table.

Lattice recommends the ispMACH[®] 4000V products as replacements for the GAL devices; however, they are not voltage compatible and require a 3.3V power supply. For a 5V core voltage compatible alternative, the mature ispMACH[®] 4A5 devices can be used.

For additional information on replacing the ispPAC-POWR1208/P1 devices, please refer to Product Bulletin #1346, available [here](#).

DISCONTINUANCE TIMING

Customers will have 6 months to place a last time buy (LTB) order for these devices. All LTB orders for these devices will be non-cancelable and non-returnable. All LTB orders must be placed no later than March 7, 2011 (6 months after the date of this notice); however, Lattice is willing to schedule and ship LTB orders over a four year time period. Orders placed by March 7, 2011 will be supported at the current price for shipments through the end of 2014. Lattice will use commercially reasonable efforts to accept orders received after March 7, 2011; however, Lattice does not guarantee that orders received after March 7, 2011 can be accepted.

DISCONTINUANCE TIMING - SUMMARY

- **Last Time Buy Order Date:** **March 7, 2011**
- **Last Shipment Date:** **December 31, 2014**

RESPONSE

In accordance with JESD46-C, this change is deemed accepted by the customer if no acknowledgement is received within 30 days from this Notice.

Note: Be sure to sign up for PCN “Web Alerts” (See [PCN#13A-09](#) for details) and receive all future Lattice PCNs via e-mail!

CONTACT

If you have any questions or require additional information, please contact pcn@latticesemi.com.

Sincerely,

Lattice Semiconductor PCN Administration

EXHIBIT A – Discontinued Device and Recommended Alternative List

Discontinued Device			Recommended Replacement Alternatives			
Product Line	Ordering Part Number	Package Type	Option #1		Option #2	
			Ordering Part Number	Package Type	Ordering Part Number	Package Type
GAL16V8D	GAL16V8D-7LP	20-PDIP	LC4032V-75T48C	48-TQFP	M4A5-32/32-7VC48	48-TQFP
	GAL16V8D-10LP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-15LP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-25LP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-10LPI		LC4032V-75T48I		M4A5-32/32-10VI48	
	GAL16V8D-15LPI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL16V8D-25LPI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL16V8D-10QP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-15QP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-25QP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-20QPI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL16V8D-25QPI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL16V8D-7LPN	Pb-Free 20-PDIP	LC4032V-75TN48C	Pb-Free 48-TQFP	M4A5-32/32-7NVC48	Pb-Free 48-TQFP
	GAL16V8D-10LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL16V8D-15LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL16V8D-25LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL16V8D-10LPNI		LC4032V-75TN48I		M4A5-32/32-10VNI48	
	GAL16V8D-15LPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48	
	GAL16V8D-25LPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48	
	GAL16V8D-10QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL16V8D-15QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL16V8D-25QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL16V8D-20QPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48	
	GAL16V8D-25QPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48	
	GAL16V8D-5LJ	20-PLCC	LC4032V-5T48C	48-TQFP	M4A5-32/32-5VC48	48-TQFP
	GAL16V8D-7LJ		LC4032V-75T48C		M4A5-32/32-7VC48	
	GAL16V8D-10LJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-15LJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-25LJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-10LJI		LC4032V-75T48I		M4A5-32/32-10VI48	
	GAL16V8D-15LJI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL16V8D-25LJI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL16V8D-10QJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-15QJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-25QJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL16V8D-10LJN		Pb-Free 20-PLCC		LC4032V-5TN48C	
	GAL16V8D-7LJN	LC4032V-75TN48C		M4A5-32/32-7VNC48		
	GAL16V8D-10LJN	LC4032V-75TN48C		M4A5-32/32-10VNC48		
	GAL16V8D-15LJN	LC4032V-75TN48C		M4A5-32/32-10VNC48		
	GAL16V8D-25LJN	LC4032V-75TN48C		M4A5-32/32-10VNC48		
	GAL16V8D-10LJNI	LC4032V-75TN48I		M4A5-32/32-10VNI48		
	GAL16V8D-15LJNI	LC4032V-75TN48I		M4A5-32/32-12VNI48		
	GAL16V8D-25LJNI	LC4032V-75TN48I		M4A5-32/32-12VNI48		
	GAL16V8D-10QJN	LC4032V-75TN48C		M4A5-32/32-10VNC48		
	GAL16V8D-15QJN	LC4032V-75TN48C		M4A5-32/32-10VNC48		
	GAL16V8D-25QJN	LC4032V-75TN48C		M4A5-32/32-10VNC48		
	GAL16V8D-20QJNI	LC4032V-75TN48I		M4A5-32/32-12VNI48		
	GAL16V8D-25QJNI	LC4032V-75TN48I	M4A5-32/32-12VNI48			
GAL18V10B	GAL18V10B-10LP	20-PDIP	LC4032V-75T48C	48-TQFP	M4A5-32/32-10VC48	48-TQFP
	GAL18V10B-15LP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL18V10B-20LP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL18V10B-10LJ	20-PLCC	LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL18V10B-15LJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL18V10B-20LJ		LC4032V-75T48C		M4A5-32/32-10VC48	
GAL20V8B	GAL20V8B-15LP	24-PDIP	LC4032V-75T48C	48-TQFP	M4A5-32/32-10VC48	48-TQFP
	GAL20V8B-25LP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL20V8B-25LPI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL20V8B-15QP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL20V8B-25QP		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL20V8B-25QPI	LC4032V-75T48I	M4A5-32/32-12VI48			
	GAL20V8B-15LPN	Pb-Free 24-PDIP	LC4032V-75TN48C	Pb-Free 48-TQFP	M4A5-32/32-10VNC48	Pb-Free 48-TQFP
	GAL20V8B-25LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL20V8B-25LPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48	
	GAL20V8B-15QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL20V8B-25QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
	GAL20V8B-25QPNI	LC4032V-75TN48I	M4A5-32/32-12VNI48			
	GAL20V8B-15LJ	28-PLCC	LC4032V-75T48C	48-TQFP	M4A5-32/32-10VC48	48-TQFP
	GAL20V8B-25LJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL20V8B-25LJI		LC4032V-75T48I		M4A5-32/32-12VI48	
	GAL20V8B-15QJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL20V8B-25QJ		LC4032V-75T48C		M4A5-32/32-10VC48	
	GAL20V8B-25QJI	LC4032V-75T48I	M4A5-32/32-12VI48			
	GAL20V8B-15LJN	Pb-Free 28-PLCC	LC4032V-75TN48C	Pb-Free 48-TQFP	M4A5-32/32-10VNC48	Pb-Free 48-TQFP
	GAL20V8B-25LJN		LC4032V-75TN48C		M4A5-32/32-10VNC48	
GAL20V8B-25LJNI	LC4032V-75TN48I		M4A5-32/32-12VNI48			
GAL20V8B-15QJN	LC4032V-75TN48C		M4A5-32/32-10VNC48			
GAL20V8B-25QJN	LC4032V-75TN48C		M4A5-32/32-10VNC48			
GAL20V8B-25QJNI	LC4032V-75TN48I	M4A5-32/32-12VNI48				

Note: This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed above.

EXHIBIT A – Discontinued Device and Recommended Alternative List(Cont'd)

Discontinued Device			Recommended Replacement Alternatives					
Product Line	Ordering Part Number	Package Type	Option #1		Option #2			
			Ordering Part Number	Package Type	Ordering Part Number	Package Type		
GAL20V8C	GAL20V8C-7LJ	28-PLCC	LC4032V-75T48C	48-TQFP	M4A5-32/32-7VC48	48-TQFP		
	GAL20V8C-10LJ		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL20V8C-10LJI		LC4032V-75T48I		M4A5-32/32-10VI48			
	GAL20V8C-7LJN		LC4032V-75TN48C		M4A5-32/32-7VNC48			
	GAL20V8C-10LJN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
GAL20V8C-10LJNI	LC4032V-75TN48I	M4A5-32/32-10VNI48	Pb-Free 48-TQFP					
GAL22V10D	GAL22V10D-10LP	24-PDIP	LC4032V-75T48C	48-TQFP	M4A5-32/32-10VC48	48-TQFP		
	GAL22V10D-15LP		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL22V10D-25LP		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL22V10D-10LPI		LC4032V-75T48I		M4A5-32/32-10VI48			
	GAL22V10D-15LPI		LC4032V-75T48I		M4A5-32/32-12VI48			
	GAL22V10D-20LPI		LC4032V-75T48I		M4A5-32/32-12VI48			
	GAL22V10D-25LPI		LC4032V-75T48I		M4A5-32/32-12VI48			
	GAL22V10D-10QIP		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL22V10D-15QIP		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL22V10D-25QIP		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL22V10D-10LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
	GAL22V10D-15LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
	GAL22V10D-25LPN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
	GAL22V10D-10LPNI		LC4032V-75TN48I		M4A5-32/32-10VNI48			
	GAL22V10D-15LPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48			
	GAL22V10D-20LPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48			
	GAL22V10D-25LPNI		LC4032V-75TN48I		M4A5-32/32-12VNI48			
	GAL22V10D-10QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
	GAL22V10D-15QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
	GAL22V10D-25QPN		LC4032V-75TN48C		M4A5-32/32-10VNC48			
	GAL22V10D-5LJ		LC4032V-5T48C		M4A5-32/32-5VC48		48-TQFP	
	GAL22V10D-7LJ		LC4032V-75T48C		M4A5-32/32-7VC48			
	GAL22V10D-10LJ		LC4032V-75T48C		M4A5-32/32-10VC48			
	GAL22V10D-15LJ		LC4032V-75T48C		M4A5-32/32-10VC48			
GAL22V10D-25LJ	LC4032V-75T48C	M4A5-32/32-10VC48						
GAL22V10D-15LJI	LC4032V-75T48I	M4A5-32/32-12VI48						
GAL22V10D-20LJI	LC4032V-75T48I	M4A5-32/32-12VI48						
GAL22V10D-25LJI	LC4032V-75T48I	M4A5-32/32-12VI48						
GAL22V10D-10QJ	LC4032V-75T48C	M4A5-32/32-10VC48						
GAL22V10D-15QJ	LC4032V-75T48C	M4A5-32/32-10VC48						
GAL22V10D-25QJ	LC4032V-75T48C	M4A5-32/32-10VC48						
GAL22V10D-5LJN	LC4032V-5TN48C	M4A5-32/32-5VNC48	Pb-Free 48-TQFP					
GAL22V10D-7LJN	LC4032V-75TN48C	M4A5-32/32-7VNC48						
GAL22V10D-10LJN	LC4032V-75TN48C	M4A5-32/32-10VNC48						
GAL22V10D-15LJN	LC4032V-75TN48C	M4A5-32/32-10VNC48						
GAL22V10D-25LJN	LC4032V-75TN48C	M4A5-32/32-10VNC48						
GAL22V10D-15LJNI	LC4032V-75TN48I	M4A5-32/32-12VNI48						
GAL22V10D-20LJNI	LC4032V-75TN48I	M4A5-32/32-12VNI48						
GAL22V10D-25LJNI	LC4032V-75TN48I	M4A5-32/32-12VNI48						
GAL22V10D-10QJN	LC4032V-75TN48C	M4A5-32/32-10VNC48						
GAL22V10D-15QJN	LC4032V-75TN48C	M4A5-32/32-10VNC48						
GAL22V10D-25QJN	LC4032V-75TN48C	M4A5-32/32-10VNC48						
GAL26CV12B	GAL26CV12B-10LJ	28-PLCC		LC4032V-75T48C	48-TQFP	M4A5-32/32-10VC48		48-TQFP
	GAL26CV12B-15LJ			LC4032V-75T48C		M4A5-32/32-10VC48		
	GAL26CV12B-20LJ			LC4032V-75T48C		M4A5-32/32-10VC48		
	GAL26CV12B-15LJI			LC4032V-75T48I		M4A5-32/32-12VI48		
	GAL26CV12B-20LJI			LC4032V-75T48I		M4A5-32/32-12VI48		
GAL26CV12C	GAL26CV12C-7LJ	28-PLCC		LC4032V-75T48C	48-TQFP	M4A5-32/32-7VC48	48-TQFP	
	GAL26CV12C-10LJI			LC4032V-75T48I		M4A5-32/32-10VC48		
GAL26V12C	GAL26V12C-7LJ	28-PLCC		LC4032V-75T48C	48-TQFP	M4A5-32/32-7VC48	48-TQFP	
	GAL26V12C-10LJ			LC4032V-75T48C		M4A5-32/32-10VC48		
	GAL26V12C-15LJ			LC4032V-75T48C		M4A5-32/32-10VC48		
	GAL26V12C-20LJ			LC4032V-75T48C		M4A5-32/32-10VC48		
	GAL26V12C-10LJI			LC4032V-75T48I		M4A5-32/32-10VI48		
	GAL26V12C-15LJI			LC4032V-75T48I		M4A5-32/32-12VI48		
ispLSI 1016	ispLSI 1016-60LJ	44-PLCC	LC4064V-75T48C	48-TQFP	ispLSI 1016EA-100LJ44	44-PLCC		
	ispLSI 1016-80LJ		LC4064V-75T48C		ispLSI 1016EA-100LJ44			
	ispLSI 1016-90LJ		LC4064V-75T48C		ispLSI 1016EA-100LJ44			
	ispLSI 1016-110LJ		LC4064V-75T48C		ispLSI 1016EA-100LJ44			
	ispLSI 1016-60LJI	LC4064V-75T48I	ispLSI 1016EA-100LJ44	44-TQFP				
	ispLSI 1016-60LT44	LC4064V-75T48C	ispLSI 1016EA-100LT44					
	ispLSI 1016-80LT44	LC4064V-75T48C	ispLSI 1016EA-100LT44					
ispLSI 1032	ispLSI 1032-60LT	100-TQFP	LC4128V-75T100C	100-TQFP	ispLSI 1032EA-100LT100	100-TQFP		
	ispLSI 1032-80LT		LC4128V-75T100C		ispLSI 1032EA-100LT100			
	ispLSI 1032-90LT		LC4128V-75T100C		ispLSI 1032EA-100LT100			
	ispLSI 1032-60LTI		LC4128V-75T100I		ispLSI 1032EA-100LTI100			
	ispLSI 1032-60LJ	84-PLCC	LC4128V-75T100C	100-TQFP	ispLSI 1032EA-100LT100	100-TQFP		
	ispLSI 1032-80LJ		LC4128V-75T100C		ispLSI 1032EA-100LT100			
	ispLSI 1032-90LJ		LC4128V-75T100C		ispLSI 1032EA-100LT100			
	ispLSI 1032-60LJI		LC4128V-75T100I		ispLSI 1032EA-100LTI100			

Note: This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed above.

EXHIBIT A – Discontinued Device and Recommended Alternative List (Cont'd)

Discontinued Device			Recommended Replacement Alternatives			
Product Line	Ordering Part Number	Package Type	Option #1		Option #2	
			Ordering Part Number	Package Type	Ordering Part Number	Package Type
ispLSI 1048	ispLSI 1048-50LQ	120-PQFP	LC4256V-75T144C	144-TQFP	ispLSI 1048EA-100LQ128	128-PQFP
	ispLSI 1048-70LQ		LC4256V-75T144C		ispLSI 1048EA-100LQ128	
	ispLSI 1048-80LQ		LC4256V-75T144C		ispLSI 1048EA-100LQ128	
	ispLSI 1048-50LQI		LC4256V-75T144I		ispLSI 1048EA-100LQ128	
ispLSI 1048C	ispLSI 1048C-50LQ	128-PQFP	LC4256V-75T144C	144-TQFP	ispLSI 1048EA-100LQ128	128-PQFP
	ispLSI 1048C-70LQ		LC4256V-75T144C		ispLSI 1048EA-100LQ128	
	ispLSI 1048C-50LQI		LC4256V-75T144I		ispLSI 1048EA-100LQ128	
ispPAC-POWR1208	ispPAC-POWR1208-01T44I	44-TQFP	ispPAC-POWR1014-01T48I	48-TQFP	ispPAC-POWR1014A-01T48I	48-TQFP
	ispPAC-POWR1208-01T44E	Pb-Free	ispPAC-POWR1014-01T48I	Pb-Free	ispPAC-POWR1014A-01T48I	Pb-Free
	ispPAC-POWR1208-01TN44I		ispPAC-POWR1014-01TN48I		ispPAC-POWR1014A-01TN48I	
	ispPAC-POWR1208-01TN44E	44-TQFP	ispPAC-POWR1014-01TN48I	48-TQFP	ispPAC-POWR1014A-01TN48I	48-TQFP
ispPAC-POWR1208P1	ispPAC-POWR1208P1-01T44I	44-TQFP	ispPAC-POWR1014-01T48I	48-TQFP	ispPAC-POWR1014A-01T48I	48-TQFP
	ispPAC-POWR1208P1-01TN44I	Pb-Free 44-TQFP	ispPAC-POWR1014-01TN48I	Pb-Free 48-TQFP	ispPAC-POWR1014A-01TN48I	Pb-Free 48-TQFP

Note: This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed above.