



October 5, 2001

**Subject: PCN# 010A-01  
Notification of Obsolescence of Devices Fabricated in AMD Fab 14**

Dear Lattice Customer,

Lattice is providing this notification of the obsolescence of those programmable logic devices fabricated in Advanced Micro Device's (AMD's) Fab 14.

As a result of the acquisition of Vantis (then, a wholly owned subsidiary of AMD) by Lattice Semiconductor Corp in June of 1999, Lattice entered into an agreement with AMD for foundry services for certain Vantis products. While most of these products have been transitioned to third party foundries by Lattice, some earlier generation products continue to be manufactured by AMD. These products are exclusively manufactured in AMD's Fab 14. These devices include the PALCE™, PALLV and the early MACH series of devices.

In a press release dated 9/25/01, AMD announced its intention to close Fabs 14 and 15, two semiconductor wafer fabrication facilities (fabs) in Austin, Texas, that primarily serve AMD's foundry operations. AMD stated that it intends to close Fab 14 by the second quarter of 2002.

#### **OBSOLESCENCE TIMING**

**Last Order Date: December 31, 2001**

**Last Shipment Date: December 31, 2002**

All orders booked for delivery between January 1, 2002 and December 31, 2002 must be booked as non-cancelable and non-returnable (NC/NR). Lattice will build product based solely upon our customers' last time requirements.

AMD has made the decision to shut down its Fab 14 on a very aggressive timetable. This has precluded Lattice from being able to offer a more extended period for placement of Last Time Buy orders.

**PRODUCTS AFFECTED**

The Ordering Part Numbers (OPNs) affected by this Notification can be grouped into 3 categories referenced in this document as Exhibits A, B and C. All pin-compatible alternative OPNs listed in these exhibits are fully qualified products in volume production by Lattice Semiconductor Corporation.

EXHIBIT	DESCRIPTION
A	PALCE devices with pin-, function- and parametric-compatible GAL device alternatives available. Expect no or only minor issues on these conversions.
B	PALCE and MACH devices with pin-compatible GAL and ispMACH device alternatives available. Device alternatives have functional and/or AC/DC parametric differences from the original devices. Contact the Lattice Factory Applications group for technical assistance on these conversions. (techsupport@latticesemi.com)
C	PALCE, PALLV and MACH devices with no pin-compatible device alternatives.

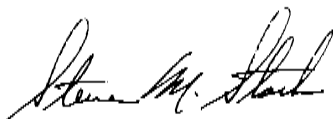
**Note: This PCN also affects any Custom Devices (i.e. factory programmed, special test, non-standard Industrial grade, tape and reel, etc.) which are derived from any of the Ordering Part Numbers listed in the above referenced Exhibits.**

**LAST TIME BUY ORDERS**

Effective immediately, all orders for delivery after December 31, 2001 will be non-cancelable and non-returnable. Last Time Buy orders must be placed with Lattice, whether directly or through a Lattice distributor, no later than December 31, 2001. All deliveries must be scheduled for shipment by Lattice no later than December 31, 2002. Lattice can only guarantee product availability for orders placed by the December 31, 2001 Last Time Buy order deadline. Orders received after this date can only be supplied from remaining available stock.

If you have any questions or require additional information, please contact your local Lattice Sales Representative or please feel free to contact me at (503) 268-8386.

Regards,



Steven M. Stark  
Director, Product Marketing

**EXHIBIT "A"**  
**Pin-Compatible Alternative OPN; No / Minor Conversion Issues**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
PALCE16V8H-10JC/4	PLCC	20	GAL16V8D-10LJ
PALCE16V8H-10JI/4	PLCC	20	GAL16V8D-10LJI
PALCE16V8H-10PC/4	PDIP	20	GAL16V8D-10LP
PALCE16V8H-10PI/4	PDIP	20	GAL16V8D-10LPI
PALCE16V8H-10SC/4	SOIC	20	GAL16V8D-10LS
PALCE16V8H-15JC/4	PLCC	20	GAL16V8D-15LJ
PALCE16V8H-15JI/4	PLCC	20	GAL16V8D-15LJI
PALCE16V8H-15PC/4	PDIP	20	GAL16V8D-15LP
PALCE16V8H-15PI/4	PDIP	20	GAL16V8D-15LPI
PALCE16V8H-15SC/4	SOIC	20	GAL16V8D-15LS
PALCE16V8H-25JC/4	PLCC	20	GAL16V8D-25LJ
PALCE16V8H-25JI/4	PLCC	20	GAL16V8D-25LJI
PALCE16V8H-25PC/4	PDIP	20	GAL16V8D-25LP
PALCE16V8H-25PI/4	PDIP	20	GAL16V8D-25LPI
PALCE16V8H-25SC/4	SOIC	20	GAL16V8D-25LS
PALCE16V8H-5JC/5	PLCC	20	GAL16V8D-5LJ
PALCE16V8H-7JC/5	PLCC	20	GAL16V8D-7LJ
PALCE16V8H-7PC/5	PDIP	20	GAL16V8D-7LP
PALCE16V8H-7SC/5	SOIC	20	GAL16V8D-7LS
PALCE16V8Q-10JC/5	PLCC	20	GAL16V8D-10QJ
PALCE16V8Q-15JC/4	PLCC	20	GAL16V8D-15QJ
PALCE16V8Q-15PC/4	PDIP	20	GAL16V8D-15QP
PALCE16V8Q-20JI/4	PLCC	20	GAL16V8D-20QJI
PALCE16V8Q-20PI/4	PDIP	20	GAL16V8D-20QPI
PALCE16V8Q-25JC/4	PLCC	20	GAL16V8D-25QJ
PALCE16V8Q-25JI/4	PLCC	20	GAL16V8D-25QJI
PALCE16V8Q-25PC/4	PDIP	20	GAL16V8D-25QP
PALCE16V8Q-25PI/4	PDIP	20	GAL16V8D-25QPI
PALCE20V8H-10JC/4	PLCC	28	GAL20V8C-10LJ
PALCE20V8H-10PC/4	PDIP	24	GAL20V8B-10LP
PALCE20V8H-15JC/4	PLCC	28	GAL20V8B-15LJ
PALCE20V8H-15JI/4	PLCC	28	GAL20V8B-15LJI
PALCE20V8H-15PC/4	PDIP	24	GAL20V8B-15LP
PALCE20V8H-15PI/4	PDIP	24	GAL20V8B-15LPI
PALCE20V8H-25JC/4	PLCC	28	GAL20V8B-25LJ
PALCE20V8H-25JI/4	PLCC	28	GAL20V8B-25LJI
PALCE20V8H-25PC/4	PDIP	24	GAL20V8B-25LP
PALCE20V8H-25PI/4	PDIP	24	GAL20V8B-25LPI
PALCE20V8H-5JC/5	PLCC	28	GAL20V8C-5LJ
PALCE20V8H-7JC/5	PLCC	28	GAL20V8C-7LJ
PALCE20V8H-7PC/5	PDIP	24	GAL20V8B-7LP
PALCE20V8Q-15JC/4	PLCC	28	GAL20V8B-15QJ
PALCE20V8Q-15PC/4	PDIP	24	GAL20V8B-15QP

**EXHIBIT “A” (Page 2 of 2)**  
**Pin-Compatible Alternative OPN; No / Minor Conversion Issues**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
PALCE20V8Q-20JI/4	PLCC	28	GAL20V8B-20QJI
PALCE20V8Q-20PI/4	PDIP	24	GAL20V8B-20QPI
PALCE20V8Q-25JC/4	PLCC	28	GAL20V8B-25QJ
PALCE20V8Q-25JI/4	PLCC	28	GAL20V8B-25QJI
PALCE20V8Q-25PC/4	PDIP	24	GAL20V8B-25QP
PALCE20V8Q-25PI/4	PDIP	24	GAL20V8B-25QPI
PALCE22V10H-10JC/5	PLCC	28	GAL22V10D-10LJ
PALCE22V10H-10JI/5	PLCC	28	GAL22V10D-10LJI
PALCE22V10H-10PC/5	PDIP	24	GAL22V10D-10LP
PALCE22V10H-10PI/5	PDIP	24	GAL22V10D-10LPI
PALCE22V10H-10SC/5	SOIC	24	GAL22V10D-10LS
PALCE22V10H-15JC/4	PLCC	28	GAL22V10D-15LJ
PALCE22V10H-15JI/5	PLCC	28	GAL22V10D-15LJI
PALCE22V10H-15PC/4	PDIP	24	GAL22V10D-15LP
PALCE22V10H-15PI/5	PDIP	24	GAL22V10D-15LPI
PALCE22V10H-15SC/4	SOIC	24	GAL22V10D-15LS
PALCE22V10H-20JI/4	PLCC	28	GAL22V10D-20LJI
PALCE22V10H-20PI/4	PDIP	24	GAL22V10D-20LPI
PALCE22V10H-25JC/4	PLCC	28	GAL22V10D-25LJ
PALCE22V10H-25JI/4	PLCC	28	GAL22V10D-25LJI
PALCE22V10H-25PC/4	PDIP	24	GAL22V10D-25LP
PALCE22V10H-25PI/4	PDIP	24	GAL22V10D-25LPI
PALCE22V10H-25SC/4	SOIC	24	GAL22V10D-25LS
PALCE22V10H-5JC/5	PLCC	28	GAL22V10D-5LJ
PALCE22V10H-7JC/5	PLCC	28	GAL22V10D-7LJ
PALCE22V10H-7PC/5	PDIP	24	GAL22V10D-7LP
PALCE22V10Q-10JC/5	PLCC	28	GAL22V10D-10QJ
PALCE22V10Q-10PC/5	PDIP	24	GAL22V10D-10QP
PALCE22V10Q-15JC/5	PLCC	28	GAL22V10D-15QJ
PALCE22V10Q-15PC/5	PDIP	24	GAL22V10D-15QP
PALCE22V10Q-25JC/4	PLCC	28	GAL22V10D-25QJ
PALCE22V10Q-25PC/4	PDIP	24	GAL22V10D-25QP
PALCE26V12H-15JC/4	PLCC	28	GAL26V12C-15LJ
PALCE26V12H-15JI/4	PLCC	28	GAL26V12C-15LJI
PALCE26V12H-15PC/4	PDIP	28	GAL26V12C-15LP
PALCE26V12H-15PI/4	PDIP	28	GAL26V12C-15LPI
PALCE26V12H-20JC/4	PLCC	28	GAL26V12C-20LJ
PALCE26V12H-20JI/4	PLCC	28	GAL26V12C-20LJI
PALCE26V12H-20PC/4	PDIP	28	GAL26V12C-20LP
PALCE26V12H-20PI/4	PDIP	28	GAL26V12C-20LPI

**EXHIBIT “B”**  
**Pin-Compatible Alternative OPNs**  
**With Functional and/or AC/DC Parametric Differences**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
MACH111SP-10JC	PLCC	44	M4A5-32/32-10JC
MACH111SP-10JI	PLCC	44	M4A5-32/32-10JI
MACH111SP-10VC	TQFP	44	M4A5-32/32-10VC
MACH111SP-12JC	PLCC	44	M4A5-32/32-10JC
MACH111SP-12JI	PLCC	44	M4A5-32/32-12JI
MACH111SP-12VC	TQFP	44	M4A5-32/32-10VC
MACH111SP-14JI	PLCC	44	M4A5-32/32-12JI
MACH111SP-15JC	PLCC	44	M4A5-32/32-10JC
MACH111SP-15VC	TQFP	44	M4A5-32/32-10VC
MACH111SP-18JI	PLCC	44	M4A5-32/32-12JI
MACH111SP-5JC	PLCC	44	M4A5-32/32-5JC
MACH111SP-5VC	TQFP	44	M4A5-32/32-5VC
MACH111SP-7JC	PLCC	44	M4A5-32/32-7JC
MACH111SP-7JI	PLCC	44	M4A5-32/32-7JI
MACH111SP-7VC	TQFP	44	M4A5-32/32-7VC
MACH130-15JC	PLCC	84	M4-128N/64-15JC
MACH130-18JI	PLCC	84	M4-128N/64-18JI
MACH131-10JC/1	PLCC	84	M4-128N/64-10JC
MACH131-10JI/1	PLCC	84	M4-128N/64-10JI
MACH131-12JC/1	PLCC	84	M4-128N/64-12JC
MACH131-12JI/1	PLCC	84	M4-128N/64-12JI
MACH131-14JI/1	PLCC	84	M4-128N/64-14JI
MACH131-15JC/1	PLCC	84	M4-128N/64-15JC
MACH131-18JI/1	PLCC	84	M4-128N/64-18JI
MACH131-7JC/1	PLCC	84	M4-128N/64-7JC
MACH211SP-10JC	PLCC	44	M4A5-64/32-10JC
MACH211SP-10JI	PLCC	44	M4A5-64/32-10JI
MACH211SP-10VC	TQFP	44	M4A5-64/32-10VC
MACH211SP-12JC	PLCC	44	M4A5-64/32-10JC
MACH211SP-12JI	PLCC	44	M4A5-64/32-12JI
MACH211SP-12VC	TQFP	44	M4A5-64/32-10VC
MACH211SP-14JI	PLCC	44	M4A5-64/32-12JI
MACH211SP-15JC	PLCC	44	M4A5-64/32-10JC
MACH211SP-15VC	TQFP	44	M4A5-64/32-10VC
MACH211SP-18JI	PLCC	44	M4A5-64/32-12JI
MACH211SP-6JC	PLCC	44	M4A5-32/32-5JC
MACH211SP-6VC	TQFP	44	M4A5-32/32-5VC
MACH211SP-7JC	PLCC	44	M4A5-64/32-7JC
MACH211SP-7VC	TQFP	44	M4A5-64/32-7VC

**EXHIBIT “B” (Page 2 of 2)**  
**Pin-Compatible Alternative OPNs**  
**With Functional and/or AC/DC Parametric Differences**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
MACH230-10JC	PLCC	84	M4-128N/64-10JC
MACH230-15JC	PLCC	84	M4-128N/64-15JC
MACH230-18JI	PLCC	84	M4-128N/64-18JI
MACH231-10JC/1	PLCC	84	M4-128N/64-10JC
MACH231-12JC/1	PLCC	84	M4-128N/64-12JC
MACH231-12JI/1	PLCC	84	M4-128N/64-12JI
MACH231-14JI/1	PLCC	84	M4-128N/64-14JI
MACH231-15JC/1	PLCC	84	M4-128N/64-15JC
MACH231-18JI/1	PLCC	84	M4-128N/64-18JI
MACH231-7JC	PLCC	84	M4-128N/64-7JC
MACH435-12JC	PLCC	84	M4-128N/64-12JC
MACH435-15JC	PLCC	84	M4-128N/64-15JC
MACH435-20JI	PLCC	84	M4-128N/64-18JI
MACH435Q-20JC	PLCC	84	M4-128N/64-15JC
MACH445-12YC	PQFP	100	M4A5-128/64-10YC
MACH445-15YC	PQFP	100	M4A5-128/64-10YC
MACH445-20YI	PQFP	100	M4A5-128/64-12YI
PALCE16V8Z-25JC	PLCC	20	GAL16V8Z-15QJ
PALCE16V8Z-25PC	PDIP	20	GAL16V8Z-15QP
PALCE16V8Z-25SC	SOIC	20	GAL16V8Z-15QS
PALCE20RA10H-10JC	PLCC	28	GAL20RA10B-10LJ
PALCE20RA10H-10PC	PDIP	24	GAL20RA10B-10LP
PALCE20RA10H-15JC	PLCC	28	GAL20RA10B-15LJ
PALCE20RA10H-15PC	PDIP	24	GAL20RA10B-15LP
PALCE20RA10H-20JC	PLCC	28	GAL20RA10B-20LJ
PALCE20RA10H-20JI	PLCC	28	GAL20RA10B-20LJI
PALCE20RA10H-20PC	PDIP	24	GAL20RA10B-20LP
PALCE20RA10H-20PI	PDIP	24	GAL20RA10B-20LPI
PALCE20RA10H-7JC	PLCC	28	GAL20RA10B-7LJ
PALCE26V12H-10JC/4	PLCC	28	GAL26V12C-10LJ
PALCE26V12H-10JI/4	PLCC	28	GAL26V12C-10LJI
PALCE26V12H-10PC/4	PDIP	28	GAL26V12C-10LP
PALCE26V12H-10PI/4	PDIP	28	GAL26V12C-10LPI
PALCE26V12H-7JC/4	PLCC	28	GAL26V12C-07LJ
PALLV16V8-10JC	PLCC	20	GAL16LV8C-10LJ
PALLV16V8-10PC	PDIP	20	GAL16LV8C-10LP
PALLV22V10-10JC	PLCC	28	GAL22LV10C-10LJ
PALLV22V10-15JC	PLCC	28	GAL22LV10C-15LJ
PALLV22V10-7JC	PLCC	28	GAL22LV10C-07LJ

**EXHIBIT “C”**  
**No Pin-Compatible Alternative OPNs**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
M4-96/96-15YC	PQFP	144	None
M4-96/96-20YI	PQFP	144	None
M5-192/160-10YC	PQFP	208	None
M5-192/160-10YI	PQFP	208	None
M5-192/160-12YC	PQFP	208	None
M5-192/160-12YI	PQFP	208	None
M5-192/160-15YC	PQFP	208	None
M5-192/160-15YI	PQFP	208	None
M5-192/160-20YI	PQFP	208	None
M5-192/160-7YC	PQFP	208	None
MACH110-12JC	PLCC	44	None
MACH110-14JI	PLCC	44	None
MACH110-15JC	PLCC	44	None
MACH110-18JI	PLCC	44	None
MACH111-10JC	PLCC	44	None
MACH111-10JI	PLCC	44	None
MACH111-10VC	TQFP	44	None
MACH111-12JC	PLCC	44	None
MACH111-12JI	PLCC	44	None
MACH111-12VC	TQFP	44	None
MACH111-14JI	PLCC	44	None
MACH111-15JC	PLCC	44	None
MACH111-15VC	TQFP	44	None
MACH111-18JI	PLCC	44	None
MACH111-5JC	PLCC	44	None
MACH111-5VC	TQFP	44	None
MACH111-7JC	PLCC	44	None
MACH111-7JI	PLCC	44	None
MACH111-7VC	TQFP	44	None
MACH120-12JC	PLCC	68	None
MACH120-15JC	PLCC	68	None
MACH120-18JI	PLCC	68	None
MACH131-5JC/1	PLCC	84	None
MACH131-7JI/1	PLCC	84	None
MACH131SP-10VC	TQFP	100	None
MACH131SP-10YC	PQFP	100	None
MACH131SP-10YI	PQFP	100	None
MACH131SP-12VC	TQFP	100	None
MACH131SP-12YC	PQFP	100	None
MACH131SP-12YI	PQFP	100	None
MACH131SP-14YI	PQFP	100	None
MACH131SP-15VC	TQFP	100	None
MACH131SP-15YC	PQFP	100	None
MACH131SP-18YI	PQFP	100	None

**EXHIBIT “C” (Page 2 of 4)**  
**No Pin-Compatible Alternative OPNs**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
MACH131SP-5VC	TQFP	100	None
MACH131SP-5YC	PQFP	100	None
MACH131SP-7VC	TQFP	100	None
MACH131SP-7YC	PQFP	100	None
MACH131SP-7YI	PQFP	100	None
MACH210-12JC	PLCC	44	None
MACH210-14JI	PLCC	44	None
MACH210-15JC	PLCC	44	None
MACH210-18JI	PLCC	44	None
MACH210A-10JC	PLCC	44	None
MACH210A-10VC	TQFP	44	None
MACH210A-12JC	PLCC	44	None
MACH210A-12JI	PLCC	44	None
MACH210A-12VC	TQFP	44	None
MACH210A-14JI	PLCC	44	None
MACH210A-7JC	PLCC	44	None
MACH210A-7VC	TQFP	44	None
MACH210AQ-12JC	PLCC	44	None
MACH210AQ-15JC	PLCC	44	None
MACH210AQ-18JI	PLCC	44	None
MACH211-10JC	PLCC	44	None
MACH211-10JI	PLCC	44	None
MACH211-10VC	TQFP	44	None
MACH211-12JC	PLCC	44	None
MACH211-12JI	PLCC	44	None
MACH211-12VC	TQFP	44	None
MACH211-14JI	PLCC	44	None
MACH211-15JC	PLCC	44	None
MACH211-15VC	TQFP	44	None
MACH211-18JI	PLCC	44	None
MACH211-7JC	PLCC	44	None
MACH211-7VC	TQFP	44	None
MACH215-12JC	PLCC	44	None
MACH215-14JI	PLCC	44	None
MACH215-15JC	PLCC	44	None
MACH215-18JI	PLCC	44	None
MACH220-10JC	PLCC	68	None
MACH220-12JC	PLCC	68	None
MACH220-15JC	PLCC	68	None
MACH220-18JI	PLCC	68	None
MACH221-10JC	PLCC	68	None
MACH221-10JI	PLCC	68	None
MACH221-12JC	PLCC	68	None
MACH221-12JI	PLCC	68	None



**EXHIBIT “C” (Page 3 of 4)**  
**No Pin-Compatible Alternative OPNs**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
MACH221-14JI	PLCC	68	None
MACH221-15JC	PLCC	68	None
MACH221-18JI	PLCC	68	None
MACH221-7JC	PLCC	68	None
MACH221SP-10YC	PQFP	100	None
MACH221SP-10YI	PQFP	100	None
MACH221SP-12YC	PQFP	100	None
MACH221SP-12YI	PQFP	100	None
MACH221SP-14YI	PQFP	100	None
MACH221SP-15YC	PQFP	100	None
MACH221SP-18YI	PQFP	100	None
MACH221SP-7YC	PQFP	100	None
MACH231-6JC	PLCC	84	None
MACH231SP-10VC	TQFP	100	None
MACH231SP-10YC	PQFP	100	None
MACH231SP-12VC	TQFP	100	None
MACH231SP-12YC	PQFP	100	None
MACH231SP-12YI	PQFP	100	None
MACH231SP-14YI	PQFP	100	None
MACH231SP-15VC	TQFP	100	None
MACH231SP-15YC	PQFP	100	None
MACH231SP-18YI	PQFP	100	None
MACHLV210-12JC	PLCC	44	None
MACHLV210-15JC	PLCC	44	None
MACHLV210-18JI	PLCC	44	None
PALCE16V8Z-12JI	PLCC	20	None
PALCE16V8Z-12PI	PDIP	20	None
PALCE16V8Z-15JI	PLCC	20	None
PALCE16V8Z-15PI	PDIP	20	None
PALCE16V8Z-25JI	PLCC	20	None
PALCE16V8Z-25PI	PDIP	20	None
PALCE16V8Z-25SI	SOIC	20	None
PALCE20RA10H-10JI	PLCC	28	None
PALCE20RA10H-10PI	PDIP	24	None
PALCE20RA10H-15JI	PLCC	28	None
PALCE20RA10H-15PI	PDIP	24	None
PALCE20RA10H-7JI	PLCC	28	None
PALCE22V10Z-15JI	PLCC	28	None
PALCE22V10Z-15PI	PDIP	24	None
PALCE22V10Z-25JC	PLCC	28	None
PALCE22V10Z-25JI	PLCC	28	None
PALCE22V10Z-25PC	PDIP	24	None
PALCE22V10Z-25PI	PDIP	24	None
PALCE22V10Z-25SC	SOIC	24	None
PALCE22V10Z-25SI	SOIC	24	None

**EXHIBIT “C” (Page 4 of 4)**  
**No Pin-Compatible Alternative OPNs**

<b>Obsolete OPN</b>	<b>Pkg</b>	<b>Pin Cnt</b>	<b>Pin-Compatible Alternative OPN</b>
PALCE24V10H-15JC	PLCC	28	None
PALCE24V10H-15PC	PDIP	28	None
PALCE24V10H-25JC	PLCC	28	None
PALCE24V10H-25PC	PDIP	28	None
PALCE29M16H25JC/4	PLCC	28	None
PALCE29M16H25PC/4	PDIP	24	None
PALCE29MA16H25JC/4	PLCC	28	None
PALCE29MA16H25PC/4	PDIP	24	None
PALCE610H-15JC	PLCC	28	None
PALCE610H-15PC	PDIP	24	None
PALCE610H-25JC	PLCC	28	None
PALCE610H-25PC	PDIP	24	None
PALLV16V8-10SC	SOIC	20	None
PALLV16V8Z-20JI	PLCC	20	None
PALLV16V8Z-20PI	PDIP	20	None
PALLV22V10-10PC	PDIP	24	None
PALLV22V10-15JI	PLCC	28	None
PALLV22V10-15PC	PDIP	24	None
PALLV22V10Z-25JI	PLCC	28	None
PALLV22V10Z-25PI	PDIP	24	None