

Socket Adapters are the interface between programming hardware (such as the Lattice Model 300 desktop programmer), and Lattice programmable devices. This document shows which Lattice Socket Adapters support which Lattice programmable products. Lattice Socket Adapters are device and package specific, however some Socket Adapters support multiple Lattice products. Use the tables on the following pages to determine which socket adapter you require.



Lattice Socket Adapters support the following families: LatticeECP2/M, LatticeXP2, LatticeXP, MachXO, ispXPLD, ispXPGA, ispMACH, MACH, ispPAC, ispGDX, ispGAL and GAL.

Some socket adapters are provided by third parties, and interface to programming hardware provided by those third parties. Contact information for these third parties is provided at the end of this document.

NOTE: A Lattice "28-pin Converter" (Lattice Part Number "pDS4102N-28P2SAB"), is required to program all devices that use the Lattice adapter on Approved Third-Party Programmers. The "28-pin Converter" is used in conjunction with Lattice pDS4102-xxxx, PA-xxxx, and PN-xxxx adapters.

Device	Lattice Semiconductor Corporation
28-pin Converter (RoHs Compliant)	pDS4102N-28P2SAB

Lattice Programmers	Vcc Support	Lattice Semiconductor Corporation
Model 300	1.8V - 5.0V	pDS4102-PM300
Model 100	5.0V	Not Available

Socket adapter products with the prefix "PN" in the ordering part number (e.g. PN-xxxx), and the following products: pDS4102N-28P2SAB; comply to the following China RoHS Environment-Friendly Use Period	
Socket adapter products with the prefix "PN" in the ordering part number (e.g. PN-xxxx), and the following products: pDS4102N-28P2SAB, pDS4102PM300; are RoHS compliant, and also comply to the following China RoHS Environment-Friendly Use Period.	

FPGA Family

LatticeECP2S		
Device	Package	Lattice Semiconductor Corporation
LFE2-6SE	144 pin TQFP	PN-TN144/E2
	256 ball fpBGA	PN-FN256/E2
LFE2-12SE	144 pin TQFP	PN-TN144/E2
	208 pin PQFP	PN-QN208/E2
	256 ball fpBGA	PN-FN256/E2
LFE2-20SE	484 ball fpBGA	PN-FN484/E2
	208 pin PQFP	PN-QN208/E2
	256 ball fpBGA	PN-FN256/E2
LFE2-35SE	484 ball fpBGA	PN-FN484/E2
	672 ball fpBGA	PN-FN672/E2
	672 ball fpBGA	PN-FN672/E2

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LFE2-50SE	484 ball fpBGA	PN-FN484/E2
	672 ball fpBGA	PN-FN672/E2
LFE2-70SE	672 ball fpBGA	PN-FN672/E2
	900 ball fpBGA	Currently Not Available

Note: Socket Adapters with prefix "PN" are lead free.

LatticeECP2MS		
Device	Package	Lattice Semiconductor Corporation
LFE2M20SE	256 ball fpBGA	PN-FN256/E2M
	484 ball fpBGA	PN-FN484/E2M
LFE2M35SE	256 ball fpBGA	PN-FN256/E2M
	484 ball fpBGA	PN-FN484/E2M
	672 ball fpBGA	PN-FN672/E2M
LFE2M50SE	484 ball fpBGA	PN-FN484/E2M
	672 ball fpBGA	PN-FN672/E2M
	900 ball fpBGA	Currently Not Available
LFE2M70SE	900 ball fpBGA	Currently Not Available
	1152 ball fpBGA	Currently Not Available
LFE2M100SE	900 ball fpBGA	Currently Not Available
	1152 ball fpBGA	Currently Not Available
	1156 ball fpBGA	Currently Not Available

Note: Socket Adapters with prefix "PN" are lead free.

LatticeXP2		
Device	Package	Lattice Semiconductor Corporation
LFXP2-5E	132 ball csBGA	PN-M132/LFXP2
	144 pin TQFP	PN-T144/LFXP2
	208 pin PQFP	PN-Q208/LFXP2
	256 ball ftBGA	PN-FT256/LFXP2
LFXP2-8E	132 ball csBGA	PN-M132/LFXP2
	144 pin TQFP	PN-T144/LFXP2
	208 pin PQFP	PN-Q208/LFXP2
	256 ball ftBGA	PN-FT256/LFXP2
LFXP2-17E	208 pin PQFP	PN-Q208/LFXP2
	256 ball ftBGA	PN-FT256/LFXP2
	484 ball fpBGA	PN-F484/LFXP2
LFXP2-30E	256 ball ftBGA	PN-FT256/LFXP2
	484 ball fpBGA	PN-F484/LFXP2
	672 ball fp BGA	PN-F672/LFXP2
LFXP2-40E	484 ball fpBGA	PN-F484/LFXP2
	672 ball fpBGA	PN-F672/LFXP2

Note: Socket Adapters with prefix "PN" are lead free.

FPGA Family

LatticeXP		
Device	Package	Lattice Semiconductor Corporation
LFXP3C	100 pin TQFP	PN-T100/LFXP3C
	144 pin TQFP	PN-T144/LFXP3C
	208 pin PQFP	PA-Q208/LFXP3C ⁽¹⁾
LFXP3E	100 pin TQFP	PN-T100/LFXP3E ⁽²⁾
	144 pin TQFP	PN-T144/LFXP3E ⁽²⁾
	208 pin PQFP	PA-Q208/LFXP3E ^{(1), (2)}

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LFXP6C	144 pin TQFP	PN-T144/LFXP3C
	208 pin PQFP	PA-Q208/LFXP3C ⁽¹⁾
	256 ball fpBGA	PN-F256/LFXP10C
LFXP6E	144 pin TQFP	PN-T144/LFXP3E ⁽²⁾
	208 pin PQFP	PA-Q208/LFXP3E ^{(1), (2)}
	256 ball fpBGA	PN-F256/LFXP10E ⁽²⁾
LFXP10C	256 ball fpBGA	PN-F256/LFXP10C
	388 ball fpBGA	PN-F388/LFXP10C
LFXP10E	256 ball fpBGA	PN-F256/LFXP10E ⁽²⁾
	388 ball fpBGA	PN-F388/LFXP10E ⁽²⁾
LFXP15C	256 ball fpBGA	PN-F256/LFXP10C
	388 ball fpBGA	PN-F388/LFXP10C
	484 ball fpBGA	PN-F484/LFXP20C
LFXP15E	256 ball fpBGA	PN-F256/LFXP10E ⁽²⁾
	388 ball fpBGA	PN-F388/LFXP10E ⁽²⁾
	484 ball fpBGA	PN-F484/LFXP20E ⁽²⁾
LFXP20C	256 ball fpBGA	PN-F256/LFXP10C
	388 ball fpBGA	PN-F388/LFXP10C
	484 ball fpBGA	PN-F484/LFXP20C
LFXP20E	256 ball fpBGA	PN-F256/LFXP10E ⁽²⁾
	388 ball fpBGA	PN-F388/LFXP10E ⁽²⁾
	484 ball fpBGA	PN-F484/LFXP20E ⁽²⁾

(1) Lead Free Socket Adapter.

(2) Socket adapter includes an internal voltage regulator for 1.2V programming support.

Note: Socket Adapters with prefix "PN" are lead free.

ispXPGA		
Device	Package	Lattice Semiconductor Corporation
LFX125 B/C	256 ball fpBGA	PN-F256/LFX200
	516 ball fpBGA	PA-F516/LFX200
LFX200 B/C	256 ball fpBGA	PN-F256/LFX200
	516 ball fpBGA	PA-F516/LFX200
LFX500 B/C	516 ball fpBGA	PA-F516/LFX200
	900 ball fpBGA	PA-F900/LFX1200
LFX1200 B/C	680 ball fpBGA	PA-FE680/LFX1200
	900 ball fpBGA	PA-F900/LFX1200

Note: Socket Adapters with prefix "PN" are lead free.

FPGA Family

ispXPGA-E		
Device	Package	Lattice Semiconductor Corporation
LFX125E B/C	256 ball fpBGA	PN-F256/LFX200
	516 ball fpBGA	PA-F516/LFX200
LFX200E B/C	256 ball fpBGA	PN-F256/LFX200
	516 ball fpBGA	PA-F516/LFX200
LFX500E B/C	516 ball fpBGA	PA-F516/LFX200
	900 ball fpBGA	PA-F900/LFX1200
LFX1200E B/C	680 ball fpBGA	PA-FE680/LFX1200
	900 ball fpBGA	PA-F900/LFX1200

Note: Socket Adapters with prefix "PN" are lead free.

CPLD Family

LA-MachXO

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Device	Package	Lattice Semiconductor Corporation
LAMXO256C	100 pin TQFP	PN-T100/LCMXO640C
LAMXO256E	100 pin TQFP	PN-T100/LCMXO640E (2)
LAMXO640C	100 pin TQFP	PN-T100/LCMXO640C
	144 pin TQFP	PN-T144/LCMXO640C
	256 ball ftBGA	PA-FT256/LCMXOC
LAMXO640E	100 pin TQFP	PN-T100/LCMXO640E (2)
	144 pin TQFP	PN-T144/LCMXO640E (2)
	256 ball ftBGA	PA-FT256/LCMXOE (2)
LAMXO1200E	100 pin TQFP	PN-T100/LCMXO1200E (2)
	144 pin TQFP	PN-T144/LCMXO640E (2)
	256 ball ftBGA	PA-FT256/LCMXOE (2)
LAMXO2280E	100 pin TQFP	PN-T100/LCMXO1200E (2)
	144 pin TQFP	PN-T144/LCMXO640E (2)
	256 ball ftBGA	PA-FT256/LCMXOE (2)
	324 ball ftBGA	PN-FT324/LCMXOE (2)

2. Socket adapter includes an internal voltage regulator for 1.2V programming support.
Note: Socket Adapters with prefix "PN" are lead free.

CPLD Family

MachXO		
Device	Package	Lattice Semiconductor Corporation
LCMXO256C	100 pin TQFP	PN-T100/LCMXO640C
	100 ball csBGA	PN-M100/LCMXO640C
LCMXO256E	100 pin TQFP	PN-T100/LCMXO640E (2)
	100 ball csBGA	PN-M100/LCMXO640E (2)
LCMXO640C	100 pin TQFP	PN-T100/LCMXO640C
	144 pin TQFP	PN-T144/LCMXO640C
	100 ball csBGA	PN-M100/LCMXO640C
	132 ball csBGA	PN-M132/LCMXO640C
	256 ball ftBGA	PA-FT256/LCMXOC
LCMXO640E	100 pin TQFP	PN-T100/LCMXO640E (2)
	144 pin TQFP	PN-T144/LCMXO640E (2)
	100 ball csBGA	PN-M100/LCMXO640E (2)
	132 ball csBGA	PN-M132-LCMXO640E (2)
	256 ball ftBGA	PA-FT256/LCMXOE (2)
LCMXO1200C	100 pin TQFP	PN-T100/LCMXO1200C
	144 pin TQFP	PN-T144/LCMXO640C
	132 ball csBGA	PN-M132/LCMXO640C
	256 ball ftBGA	PA-FT256/LCMXOC
LCMXO1200E	100 pin TQFP	PN-T100/LCMXO1200E (2)
	144 pin TQFP	PN-T144/LCMXO640E (2)
	132 ball csBGA	PN-M132-LCMXO640E (2)
	256 ball ftBGA	PA-FT256/LCMXOE (2)
LCMXO2280C	100 pin TQFP	PN-T100/LCMXO1200C
	144 pin TQFP	PN-T144/LCMXO640C
	132 ball csBGA	PN-M132/LCMXO640C
	256 ball ftBGA	PA-FT256/LCMXOC
	324 ball ftBGA	PN-FT324/LCMXOC
LCMXO2280E	100 pin TQFP	PN-T100/LCMXO1200E (2)
	144 pin TQFP	PN-T144/LCMXO640E (2)
	132 ball csBGA	PN-M132-LCMXO640E (2)
	256 ball ftBGA	PA-FT256/LCMXOE (2)
	324 ball ftBGA	PN-FT324/LCMXOE (2)

2. Socket adapter includes an internal voltage regulator for 1.2V programming support.
Note: Socket Adapters with prefix "PN" are lead free.

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ispXPLD		
Device	Package	Lattice Semiconductor Corporation
LC5256M V/B/C	256 ball fpBGA	PA-F256/LC5512MX
LC5768M V/B/C	256 ball fpBGA	PA-F256/LC5512MX
	484 ball fpBGA	PA-F484/LC5512MX
LC5512M V/B/C	208 pin PQFP	PA-Q208/LC5512MX
	256 ball fpBGA	PA-F256/LC5512MX
	484 ball fpBGA	PA-F484/LC5512MX
LC51024M V/B/C	484 ball fpBGA	PA-F484/LC5512MX
	672 ball fpBGA	PN-F672/LC51024MX

Note: Socket Adapters with prefix "PN" are lead free.

CPLD Family

ispMACH 4000 ZE		
Device	Package	Lattice Semiconductor Corporation
LC4032 ZE	48 pin TQFP Lead Free	PA-T48/LC4032
	64 ball csBGA Lead Free	PN-M64/LC4000ZE
LC4064 ZE	48 pin TQFP Lead Free	PA-T48/LC4032
	64 ball csBGA Lead Free	PN-M64/LC4000ZE
	100 pin TQFP Lead Free	PN-T100/LC4256
	144 ball csBGA Lead Free	PN-M144/LC4000ZE
LC4128 ZE	100 pin TQFP Lead Free	PN-T100/LC4256
	144 ball csBGA Lead Free	PN-M144/LC4000ZE
	144 pin TQFP Lead Free	PN-T144/LC4128V
LC4256 ZE	100 pin TQFP Lead Free	PN-T100/LC4256
	144 pin TQFP Lead Free	PN-T144/LC4128V
	144 ball csBGA Lead Free	PN-M144/LC4000ZE

Note: Socket Adapters with prefix "PN" are lead free.

LA-ispMACH 4000		
Device	Package	Lattice Semiconductor Corporation
LA4032 V	44 pin TQFP	PA-T44/LC4032
	48 pin TQFP	PA-T48/LC4032
LA4032 ZC	48 pin TQFP	PA-T48/LC4032
LA4064 V	44 pin TQFP	PA-T44/LC4032
	48 pin TQFP	PA-T48/LC4032
	100 pin TQFP	PN-T100/LC4256
LA4064 ZC	48 pin TQFP	PA-T48/LC4032
	100 pin TQFP	PN-T100/LC4256
LA4128 V	100 pin TQFP	PN-T100/LC4256
	128 pin TQFP	PN-T128/LC4128
	144 pin TQFP	PN-T144/LC4128V
LA4128 ZC	100 pin TQFP	PN-T100/LC4256

Note: Socket Adapters with prefix "PN" are lead free.

CPLD Family

ispMACH 4000		
Device	Package	Lattice Semiconductor Corporation

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LC4032 V/B/C	44 pin TQFP	PA-T44/LC4032
	48 pin TQFP	PA-T48/LC4032
LC4032 ZC	48 pin TQFP	PA-T48/LC4032
	56 ball csBGA	PA-M56/LC4032ZC or PN-M56/LC4032ZC
LC4064 V/B/C	44 pin TQFP	PA-T44/LC4032
	48 pin TQFP	PA-T48/LC4032
	100 pin TQFP	PN-T100/LC4256
LC4064 ZC	48 pin TQFP	PA-T48/LC4032
	100 pin TQFP	PN-T100/LC4256
	56 ball csBGA	PA-M56/LC4032ZC or PN-M56/LC4032ZC
	132 ball csBGA	PN-M132/LC4064ZC
LC4128 V/B/C	100 pin TQFP	PN-T100/LC4256
	128 pin TQFP	PN-T128/LC4128
LC4128 V	144 pin TQFP	PN-T144/LC4128V
LC4128 ZC	100 pin TQFP	PN-T100/LC4256
	132 ball csBGA	PN-M132/LC4064ZC
LC4256 V/B/C	100 pin TQFP	PN-T100/LC4256
	176 pin TQFP	PN-T176/LC4256
	256 ball fpBGA	PN-F256/LC4512
	256 ball ftBGA	PN-FT256/LC4000
LC4256 V	144 pin TQFP	PN-T144/LC4128V
LC4256 ZC	100 pin TQFP	PN-T100/LC4256
	176 pin TQFP	PN-T176/LC4256
	132 ball csBGA	PN-M132/LC4064ZC
LC4384 V/B/C	176 pin TQFP	PN-T176/LC4256
	256 ball fpBGA	PN-F256/LC4512
	256 ball ftBGA	PN-FT256/LC4000
LC4512 V/B/C	176 pin TQFP	PN-T176/LC4256
	256 ball fpBGA	PN-F256/LC4512
	256 ball ftBGA	PN-FT256/LC4000

Note: Socket Adapters with prefix "PN" are lead free.

CPLD Family

ispMACH 4A			
Device	Package	California Integration Coordinators, Inc.	Emulation Technology, Inc.
iM4A(3/5)-32/32	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-C6-ENP	Contact Vendor
	48 pin TQFP	CIC-48TQ-28D-A6-YAM	Contact Vendor
iM4A(3/5)-64/32	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-C6-ENP	Contact Vendor
	48 pin TQFP	CIC-48TQ-28D-A6-YAM	Contact Vendor
iM4A3-64/64	100 pin TQFP	CIC-100TQ-28D-E6-YAM (Rev. 3)	Contact Vendor
iM4A(3/5)-96/48	100 pin TQFP	CIC-100TQ-28D-E6-YAM (Rev. 3)	Contact Vendor
iM4A(3/5)-128/64	100 pin TQFP	CIC-100PQ-28D-A6-YAM	AS-100-28-03Q-600
	100 pin TQFP	CIC-100TQ-28D-E6-YAM (Rev. 3)	Contact Vendor
iM4A3-128/64	100 ball caBGA	CIC-100caBGA-28D-A6-PLA (Rev. 3)	Contact Vendor
iM4A(3/5)-192/96	144 pin TQFP	CIC-144TQ-28D-B6-YQM	Contact Vendor
iM4A3-192/96	144 ball fpBGA	CIC-144fpBGA-28D-A6-PLA	Contact Vendor
iM4A(3/5)-256/128	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	Contact Vendor
	256 ball BGA	CIC-256BGA-28D-B6-PLA (Rev. 2)	Contact Vendor
iM4A3-256/128	256 ball fpBGA	CIC-256fpBGA-28D-A6-PLA (Rev. 2)	Contact Vendor
iM4A3-256/160	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	Contact Vendor
iM4A3-256/192	256 ball fpBGA	CIC-256fpBGA-28D-A6-PLA (Rev. 2)	Contact Vendor
iM4A3-384/160	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	Contact Vendor

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iM4A3-384/192	256 ball BGA	CIC-256BGA-28D-B6-PLA (Rev. 2)	Contact Vendor
	256 ball fpBGA	CIC-256fpBGA-28D-A6-PLA (Rev. 2)	Contact Vendor
iM4A3-512/160	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	Contact Vendor
iM4A3-512/192	256 ball BGA	CIC-256BGA-28D-B6-PLA (Rev. 2)	Contact Vendor
iM4A3-512/192	256 ball fpBGA	CIC-256fpBGA-28D-A6-PLA (Rev. 2)	Contact Vendor
iM4A3-512/256	388 ball fpBGA	CIC-388fpBGA-28D-A6-PLA	Contact Vendor

ispCLOCK Family

ispPAC-CLK		
Device	Package	Lattice Semiconductor Corporation
ispPAC-CLK5304S	48 pin TQFP	PN-T48/CLK5312S
ispPAC-CLK5308S	48 pin TQFP	PN-T48/CLK5312S
ispPAC-CLK5312S	48 pin TQFP	PN-T48/CLK5312S
ispPAC-CLK5316S	64 pin TQFP	PN-T64/CLK5320S
ispPAC-CLK5320S	64 pin TQFP	PN-T64/CLK5320S
ispPAC-CLK5610AV	48 pin TQFP	PN-T48/CLK5510V
ispPAC-CLK5620AV	100 pin TQFP	PN-T100/CLK5520V

Note: Socket Adapters with prefix "PN" are lead free.

Power Manager Family

Power Manager II		
Device	Package	Lattice Semiconductor Corporation
ispPAC-POWR607	32 pin QFN/QFNS	PN-N32/POWR607
ispPAC-POWR6AT6	32 pin QFN/QFNS	PN-N32/POWR6AT6
ispPAC-POWR1014	48 pin TQFP	PN-T48/POWR1014/A
ispPAC-POWR1014A	48 pin TQFP	PN-T48/POWR1014/A
ispPAC-POWR1220AT8	100 pin TQFP	PN-T100/POWR1220A

Note: Socket Adapters with prefix "PN" are lead free.

Power Manager		
Device	Package	Lattice Semiconductor Corporation
ispPAC-POWR604	44 pin TQFP	PA-T44/POWR1208
ispPAC-POWR1208	44 pin TQFP	PA-T44/POWR1208
ispPAC-POWR1208P1	44 pin TQFP	PA-T44/POWR1208

Digital Interconnect

ispGDX2		
Device	Package	Lattice Semiconductor Corporation
LX64 V/B/C	100 ball fpBGA	PA-F100/LX64
LX128 V/B/C	208 ball fpBGA	PN-F208/LX128
LX256 V/B/C	484 ball fpBGA	PA-F484/LX256

ispGDX2-E		
Device	Package	Lattice Semiconductor Corporation
LX64E V/B/C	100 ball fpBGA	PA-F100/LX64

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LX128E V/B/C	208 ball fpBGA	PN-F208/LX128
LX256E V/B/C	484 ball fpBGA	PA-F484/LX256

SPLD Family

ispGAL			
Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
ispGAL 22V10A V/B/C	28 pin PLCC	Currently Not Available	AS-28-28-01P
	32 pin QFN/QFNS	PA-N32-22V10A	Contact Vendor
ispGAL 22V10 Family	28 pin PLCC	Currently Not Available	AS-28-28-01P
ispGAL 22V10 Family	28 pin SSOP	Currently Not Available	AS-28-28-02SS-6ENP-GANG
ispGAL 22LV10 Family	28 pin PLCC	Currently Not Available	AS-28-28-01P
ispGAL 22LV10 Family	28 pin SSOP	Currently Not Available	AS-28-28-02SS-6ENP-GANG

Note: Emulation Technology supported on Third Party Programmer only.

GAL

Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
GAL 16V8 Family	20 pin PLCC	Currently Not Available	AS-20-20-01P
GAL 16VP8 Family	20 pin PLCC	Currently Not Available	AS-20-20-01P
GAL 18V10 Family	20 pin PLCC	Currently Not Available	AS-20-20-01P
GAL 20V8 Family	24 pin PLCC	Currently Not Available	AS-28-24-05P
GAL 20VP8 Family	24 pin PLCC	Currently Not Available	AS-28-24-05P
GAL 22V10 Family	24 pin PLCC	Currently Not Available	AS-28-24-05P
GAL 6001 Family	24 pin PLCC	Currently Not Available	AS-28-24-05P
GAL 6002 Family	24 pin PLCC	Currently Not Available	AS-28-24-05P
GAL 26CV12 Family	28 pin PLCC	Currently Not Available	AS-28-28-01P

Note: GAL Device Families supported on Third Party Programmer only.

Mature Family

ispLSI 1000			
Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
isp/pLSI 1016	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
isp/pLSI 1016E	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
ispLSI 1016EA	44 pin PLCC	pDS4102-J44/1016EA	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/1016EA	AS-44-28-02Q-600-YAM
isp/pLSI 1024	68 pin PLCC	pDS4102-J68	AS-68-28-03P-600-YAM
	100 pin TQFP	pDS4102-T100/1024	AS-100-28-05Q-600-YAM
ispLSI 1024EA	100 pin TQFP	PA-T100/1024EA	AS-100-28-05Q-600-YAM
isp/pLSI 1032	84 pin PLCC	pDS4102-J84	AS-84-28-02P-600-YAM
	84 pin PGA	Currently Not Available	AS-84-28-01-PG-600-YAM
	100 pin TQFP	pDS4102-T100/2064E	AS-100-28-01Q-600-YAM
isp/pLSI 1032E	84 pin PLCC	pDS4102-J84	AS-84-28-02P-600-YAM
	100 pin TQFP	pDS4102-T100/2064E	AS-100-28-01Q-600-YAM
ispLSI 1032EA	100 pin TQFP	pDS4102-T0/1032EA	AS-100-28-01Q-600-YAM
isp/pLSI 1048	120 pin PQFP	pDS4102-Q120	AS-120-28-01Q-600-YAM
isp/pLSI 1048C	128 pin PQFP	pDS4102-Q128	AS-128-28-01Q-600-YAM
	133 pin PGA	Currently Not Available	AS-133-28-01G-600-YAM
isp/pLSI 1048E	128 pin PQFP	pDS4102-Q128	AS-128-28-01Q-600-YAM
	128 pin TQFP	pDS4102-T128	AS-128-28-03Q-600-YAM
ispLSI 1048EA	128 pin PQFP	PA-Q128/1048EA	AS-128-28-01Q-600-YAM
	128 pin TQFP	PA-T128/1048EA	AS-128-28-03Q-600-YAM

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Mature Family

ispLSI 2000			
Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
isp/pLSI 2032	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	48 pin TQFP	pDS4102-T48	AS-48-28-01Q-600-YAM
ispLSI 2032A	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	48 pin TQFP	pDS4102-T48	AS-48-28-01Q-600-YAM
ispLSI 2032E	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	48 pin TQFP	pDS4102-T48	Contact Vendor
ispLSI 2032LV	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
ispLSI 2032V	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
ispLSI 2032VE	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	48 pin TQFP	pDS4102-T48	AS-48-28-01Q-600-YAM
	49 ball CABGA	Currently Not Available	Contact Vendor
ispLSI 2032VL	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	48 pin TQFP	pDS4102-T48	AS-48-28-01Q-600-YAM
	49 ball CABGA	Currently Not Available	Contact Vendor
isp/pLSI 2064	84 pin PLCC	pDS4102-J84	AS-84-28-02P-600-YAM
	100 pin TQFP	pDS4102-T100/2064E	AS-100-28-01Q-600-YAM
ispLSI 2064A	84 pin PLCC	pDS4102-J84	AS-84-28-02P-600-YAM
	100 pin TQFP	pDS4102-T100/2064E	AS-100-28-01Q-600-YAM

Mature Family

ispLSI 2000			
Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
ispLSI 2064E	100 pin TQFP	pDS4102-T100/2064E	Contact Vendor
ispLSI 2064V	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	84 pin PLCC	pDS4102-J84/2064V	AS-84-28-05P-600-YAM
	100 pin TQFP	pDS4102-T100/2128V	AS-100-28-04Q-600-YAM
ispLSI 2064VE	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	100 pin TQFP	pDS4102-T100/2128V	AS-100-28-04Q-600-YAM
	100 ball CABGA	pDS4102-FB0/2064VE	Contact Vendor
ispLSI 2064VL	44 pin PLCC	pDS4102-J44	AS-44-28-03P-600-YAM
	44 pin TQFP	pDS4102-T44/2032VE	AS-44-28-02Q-600-YAM
	100 pin TQFP	pDS4102-T100/2128V	AS-100-28-04Q-600-YAM
	100 ball CABGA	pDS4102-FB0/2064VE	Contact Vendor
isp/pLSI 2096	128 pin PQFP	pDS4102-Q128	AS-128-28-01Q-600-YAM
	128 pin TQFP	pDS4102-T128	AS-128-28-03Q-600-YAM
ispLSI 2096A	128 pin PQFP	pDS4102-Q128	AS-128-28-01Q-600-YAM
	128 pin TQFP	pDS4102-T128	AS-128-28-03Q-600-YAM
ispLSI 2096E	128 pin PQFP	pDS4102-Q128	Contact Vendor
	128 pin TQFP	pDS4102-T128	Contact Vendor
ispLSI 2096V	128 pin TQFP	pDS4102-T128/2096V	AS-128-28-04Q-600-YAM
	128 pin PQFP	pDS4102-Q128/2096V	AS-128-28-02Q-600-YAM
ispLSI 2096VE	128 pin TQFP	pDS4102-T128/2096V	AS-128-28-04Q-600-YAM
ispLSI 2096VL	128 pin TQFP	pDS4102-T128/2096V	AS-128-28-04Q-600-YAM

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isp/pLSI 2128	160 pin MQUAD	pDS4102-M160	AS-160-28-01Q-600-YAM
	160 pin PQFP	pDS4102-M160	AS-160-28-01Q-600-YAM
	176 pin TQFP	pDS4102-T176 or pDS4102-T176/2128E	AS-176-28-01Q-6NEP
ispLSI 2128A	160 pin PQFP	pDS4102-M160	AS-160-28-01Q-600-YAM
	176 pin TQFP	pDS4102-T176 or pDS4102-T176/2128E	AS-176-28-01Q-6NEP
ispLSI 2128E	176 pin TQFP	pDS4102-T176/2128E	AS-176-28-01Q-6NEP
ispLSI 2128V	84 pin PLCC	pDS4102-J84/2064V	AS-84-28-05P-600-YAM
	100 pin TQFP	pDS4102-T100/2128V	AS-100-28-04Q-600-YAM
	160 pin PQFP	pDS4102-Q160/2128V	AS-160-28-03Q-600-YAM
	176 pin TQFP	pDS4102-T176/2128V	AS-176-28-02Q-6
ispLSI 2128VE	100 pin TQFP	pDS4102-T100/2128V	AS-100-28-04Q-600-YAM
	100 ball CABGA	pDS4102-FB0/2064VE	Contact Vendor
	160 pin PQFP	pDS4102-Q160/2128V	AS-160-28-03Q-600-YAM
	176 pin TQFP	pDS4102-T176/2128V	AS-176-28-02Q-6
	208 ball FPBGA	pDS4102-FB208-B1	Contact Vendor
ispLSI 2128VL	100 pin TQFP	pDS4102-T100/2128V	AS-100-28-04Q-600-YAM
	100 ball CABGA	pDS4102-FB0/2064VE	Contact Vendor
	160 pin PQFP	pDS4102-Q160/2128V	AS-160-28-03Q-600-YAM
	176 pin TQFP	pDS4102-T176/2128V	AS-176-28-02Q-600-YAM
	208 ball FPBGA	pDS4102-FB208-B1	Contact Vendor
ispLSI 2192VE	128 pin TQFP	pDS4102-T128/2096V	AS-128-28-04Q-600-YAM
	144 ball FPBGA	pDS4102-FB144-A1	Contact Vendor
ispLSI 2192VL	128 pin TQFP	pDS4102-T128/2096V	AS-128-28-04Q-600-YAM
	144 ball FPBGA	pDS4102-FB144-A1	Contact Vendor

Mature Family

ispLSI 3000			
Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
ispLSI 3160	208 pin PQFP	pDS4102-M208/3320	AS-208-28-04MQ-600-YAM
ispLSI 3192	240 pin MQUAD	pDS4102-M240	AS-240-28-01Q-600-YAM
ispLSI 3256	160 pin MQUAD	pDS4102-M160	AS-160-28-01Q-600-YAM
ispLSI 3256A	160 pin PQFP	pDS4102-M160	AS-160-28-01Q-600-YAM
	160 pin MQUAD	pDS4102-M160	AS-160-28-01Q-600-YAM
ispLSI 3256E	304 pin MQUAD	pDS4102-M304	AS-304-28-01Q-600-YAM
	320 ball SBGA	PA-B320/3256E	Contact Vendor
ispLSI 3320	208 pin PQFP	pDS4102-M208/3320	AS-208-28-04MQ-600-YAM
	208 pin MQUAD	pDS4102-M208/3320	AS-208-28-04MQ-600-YAM
	320 ball SBGA	PA-B320/3320	Contact Vendor
ispLSI 3448	432 ball SBGA	pDS4102-B432/3448	Contact Vendor

ispLSI 5000		
Device	Package	Lattice Semiconductor Corporation
ispLSI 5256V	208 pin PQFP	pDS4102-Q208/5256V
	272 ball PBGA	pDS4102-B272/5256V
	208 ball FPBGA	pDS4102-FB208-A1
ispLSI 5256VA	208 pin PQFP	pDS4102-Q208/5256V
	272 ball PBGA	pDS4102-B272/5256V
	208 ball FPBGA	pDS4102-FB208-A1
ispLSI 5384V	208 pin PQFP	pDS4102-Q208/5256V
	272 ball PBGA	pDS4102-B272/5256V
	388 ball PBGA	pDS4102-B388/5384V
	208 ball FPBGA	pDS4102-FB208-A1

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ispLSI 5384VA	208 pin PQFP	pDS4102-Q208/5256V
	272 ball PBGA	pDS4102-B272/5256V
	388 ball PBGA	pDS4102-B388/5384V
	208 ball FPBGA	pDS4102-FB208-A1
ispLSI 5512V	388 ball PBGA	pDS4102-B388/5384V
ispLSI 5512VA	208 pin PQFP	pDS4102-Q208/5256V
	272 ball PBGA	pDS4102-B272/5256V
	388 ball PBGA	pDS4102-B388/5384V

Mature Family

ispLSI 5000VE		
Device	Package	Lattice Semiconductor Corporation
ispLSI 5128VE	128 pin TQFP	PA-T128/5256VE
ispLSI 5256VE	100 pin TQFP	PA-T100/5256VE
	128 pin TQFP	PA-T128/5256VE
	256 ball FPBGA	PA-LF256/5384VE
	272 pin BGA	pDS4102-B272/5256V
ispLSI 5384VE	256 ball FPBGA	PA-LF256/5384VE
	272 ball PBGA	pDS4102-B272/5256V
ispLSI 5512VE	256 ball FBGA	PA-LF256/5384VE
	272 ball PBGA	pDS4102-B272/5256V
	388 ball FPBGA	PA-LF388/5512VE
	388 ball PBGA	pDS4102-B388/5384V

ispMACH 5000VG		
Device	Package	Lattice Semiconductor Corporation
LC51024VG	484 ball fpBGA	PA-F484/LC51024
	676 ball fpBGA	PA-F676/LC51024
LC5768VG	256 ball fpBGA	PA-F256/LC5768
	484 ball fpBGA	PA-F484/LC51024

ispMACH 5000B		
Device	Package	Lattice Semiconductor Corporation
LC5128B	128 pin TQFP	PA-T128/LC5256B
LC5256B	208 pin PQFP	PA-Q208/LC5256B
	128 pin TQFP	PA-T128/LC5256B
	256 ball fpBGA	PA-F256/LC5256B
LC5384B	208 pin PQFP	PA-Q208/LC5256B
	256 ball fpBGA	PA-F256/LC5256B
LC5512B	208 pin PQFP	PA-Q208/LC5256B
	256 ball fpBGA	PA-F256/LC5256B
	484 ball fpBGA	PA-F484/LC51024

ispLSI 8000		
Device	Package	Lattice Semiconductor Corporation
ispLSI 8600V	272 ball PBGA	pDS4102-B272/8600V
	492 ball PBGA	pDS4102-B492/8840V
ispLSI 8840	432 ball SBGA	pDS4102-B432/8840
ispLSI 8840V	272 ball PBGA	pDS4102-B272/8600V
	492 ball PBGA	pDS4102-B492/8840V

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ispLSI 81080V	272 ball PBGA	pDS4102-B272/8600V
	492 ball PBGA	pDS4102-B492/8840V

Mature Family

ispGDX and ispGDXV			
Device	Package	Lattice Semiconductor Corporation	Emulation Technology, Inc.
ispGDX 80A	100 pin TQFP	pDS4102-T100/GX80	Contact Vendor
ispGDX 80VA	100 pin TQFP	PA-T100/GX80VA	Contact Vendor
	100 ball CBGA	Currently Not Available	Contact Vendor
ispGDX 120A	160 pin PQFP	Currently Not Available	Contact Vendor
	176 pin TQFP	pDS4102-T176/GX120	AS-176-28-03Q-600-YAM
ispGDX 160	208 pin PQFP	pDS4102-Q208	AS-208-28-05Q-600-YAM
	272 ball PBGA	pDS4102-B272-A1	Contact Vendor
ispGDX 160A	208 pin PQFP	pDS4102-Q208	AS-208-28-05Q-600-YAM
	272 ball PBGA	pDS4102-B272-A1	Contact Vendor
ispGDX 160V	208 pin PQFP	pDS4102-Q208	AS-208-28-05Q-600-YAM
	208 ball FPBGA	pDS4102-FB208-C1	Contact Vendor
	272 ball PBGA	pDS4102-B272-A1	Contact Vendor
ispGDX 160VA	208 pin PQFP	pDS4102-Q208	AS-208-28-05Q-600-YAM
	208 ball FPBGA	pDS4102-FB208-C1	Contact Vendor
	272 ball PBGA	pDS4102-B272-A1	Contact Vendor
ispGDX 240VA	388 ball FPBGA	PA-FB388/GX240VA	Contact Vendor

Mature Family

MACH 1/2/3/4			
Device	Package	California Integration Coordinators, Inc.	Emulation Technology, Inc.
MACH 110	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
MACH 111	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-B6-ENP	AS-44-28-01TQ-6ENP
MACH 111SP	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-B6-ENP	AS-44-28-01TQ-6ENP-SP
MACH 120	68 pin PLCC	CIC-68PL-28D-A6-YAM	AS-68-28-05P-3-YAM
MACH 130	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
MACH 131	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
MACH 131/1	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
MACH 131SP	100 pin PQFP	CIC-100PQ-28D-A6-YAM	AS-100-28-03Q-600
	100 pin TQFP	CIC-100TQ-28D-B6-YAM	Contact Vendor
MACH 210	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-B6-ENP	AS-44-28-01TQ-6ENP
MACH 211	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-B6-ENP	AS-44-28-01TQ-6ENP
MACH 211SP	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-B6-ENP	AS-44-28-01TQ-6ENP-SP
MACH 215	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
MACH 220	68 pin PLCC	CIC-68PL-28D-A6-YAM	AS-68-28-05P-3-YAM
MACH 221	68 pin PLCC	CIC-68PL-28D-A6-YAM	AS-68-28-05P-3-YAM
MACH 221SP	100 pin PQFP	CIC-100PQ-28D-A6-YAM	AS-100-28-03Q-600
MACH 231/1	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
MACH 231SP	100 pin PQFP	CIC-100PQ-28D-A6-YAM	AS-100-28-03Q-600
	100 pin TQFP	CIC-100TQ-28D-B6-YAM	Contact Vendor
MACH 355	144 pin PQFP	Contact Vendor	AS-144-28-01Q-600
MACH 435	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
MACH(LV) 436	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
MACH(LV) 446	100 pin PQFP	CIC-100PQ-28D-A6-YAM	AS-100-28-03Q-600

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	100 pin TQFP	CIC-100TQ-28D-E6-YAM (Rev. 3)	Contact Vendor
MACH 465	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	AS-208-28-01PG-600
MACH(LV) 466	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	AS-100-28-03Q-600
M4(LV)-32/32	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-C6-ENP	Contact Vendor
	48 pin TQFP	CIC-48TQ-28D-A6-YAM	Contact Vendor
M4(LV)-64/32	44 pin PLCC	Contact Vendor	AS-44-28-01P-3-YAM
	44 pin TQFP	CIC-44TQ-28D-C6-ENP	Contact Vendor
	48 pin TQFP	CIC-48TQ-28D-A6-YAM	Contact Vendor
M4(LV)-96/48	100 pin TQFP	CIC-100TQ-28D-E6-YAM (Rev. 3)	Contact Vendor
M4(LV)-128N/64	84 pin PLCC	CIC-84PL-28D-A6-YAM	AS-84-28-01P-6YAM
M4(LV)-128/64	100 pin PQFP	CIC-100PQ-28D-A6-YAM	AS-100-28-03Q-600
	100 pin TQFP	CIC-100TQ-28D-E6-YAM (Rev. 3)	Contact Vendor
M4(LV)-192/96	144 pin TQFP	CIC-144TQ-28D-B6-YQM	Contact Vendor
M4(LV)-256/128	208 pin PQFP	CIC-208PQ-28D-B6-YAM (Rev. 2)	Contact Vendor
	256 ball BGA	CIC-256BGA-28D-B6-PLA (Rev. 2)	Contact Vendor

Note: M4-128N/64 and M4LV-128N/64 supported on Third Party Programmer only.

Mature Family

MACH 5 and MACH 5/1			
Device	Package	California Integration Coordinators, Inc.	Emulation Technology, Inc.
MACH5(LV)-128	100 pin PQFP	CIC-100PQ-28D-C6-YAM	Contact Vendor
	100 pin TQFP	CIC-100TQ-28D-D6-YAM (Rev. 2)	Contact Vendor
	144 pin PQFP	CIC-144PQ-28D-A6-YAM	Contact Vendor
	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
MACH5LV-128	144 pin TQFP	CIC-144TQ-28D-A6-YAM	Contact Vendor
MACH5-192	100 pin PQFP	CIC-100PQ-28D-C6-YAM	Contact Vendor
	100 pin TQFP	CIC-100TQ-28D-D6-YAM (Rev. 2)	Contact Vendor
	144 pin PQFP	CIC-144PQ-28D-A6-YAM	Contact Vendor
	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
	208 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-208-28-04Q-6YAM
MACH5(LV)-256	100 pin PQFP	CIC-100PQ-28D-C6-YAM	Contact Vendor
	100 pin TQFP	CIC-100TQ-28D-D6-YAM (Rev. 2)	Contact Vendor
	144 pin PQFP	CIC-144PQ-28D-A6-YAM	Contact Vendor
	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
	208 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-208-28-04Q-6YAM
MACH5LV-256	144 pin TQFP	CIC-144TQ-28D-A6-YAM	Contact Vendor
MACH5(LV)-320	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
	208 pin PQFP	CIC-208PQ-28D-A6-YAM	AS-208-28-04Q-6YAM
	240 pin PQFP	CIC-240PQ-28D-A6-ENP	Contact Vendor
	256 ball BGA	CIC-256BGA-28D-A6-PLA	Contact Vendor
MACH5(LV)-384	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
	208 pin PQFP	CIC-208PQ-28D-A6-YAM	AS-208-28-04Q-6YAM
	240 pin PQFP	CIC-240PQ-28D-A6-ENP	Contact Vendor
	256 ball BGA	CIC-256BGA-28D-A6-PLA	Contact Vendor
MACH5(LV)-512	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
	208 pin PQFP	CIC-208PQ-28D-A6-YAM	AS-208-28-04Q-6YAM
	240 pin PQFP	CIC-240PQ-28D-A6-ENP	Contact Vendor
	256 ball BGA	CIC-256BGA-28D-A6-PLA	Contact Vendor
	352 ball BGA	CIC-352BGA-28D-A6-PLA	Contact Vendor
MACH5-128/1	100 pin PQFP	CIC-100PQ-28D-C6-YAM	Contact Vendor
	100 pin TQFP	CIC-100TQ-28D-D6-YAM (Rev. 2)	Contact Vendor
	144 pin PQFP	CIC-144PQ-28D-A6-YAM	Contact Vendor
	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
MACH5-192/1	100 pin TQFP	CIC-100TQ-28D-D6-YAM (Rev. 2)	Contact Vendor
	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM
MACH5-256/1	100 pin TQFP	CIC-100TQ-28D-D6-YAM (Rev. 2)	Contact Vendor
	160 pin PQFP	CIC-160PQ-28D-A6-YAM	AS-160-28-02Q-6YAM

	208 pin PQFP	CIC-208PQ-28D-A6-YAM	AS-208-28-04Q-6YAM
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Device	Package	Lattice Semiconductor Corporation
ispPAC-CLK5000V		
ispPAC-CLK5510V	48 pin TQFP	PN-T48/CLK5510V
ispPAC-CLK5520V	100 pin TQFP	PN-T100/CLK5520V
ispPAC-CLK5610V	48 pin TQFP	PN-T48/CLK5510V
ispPAC-CLK5620V	100 pin TQFP	PN-T100/CLK5520V

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