

Lattice Semiconductor pLSI and ispLSI Development System (pDS) Environment	What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
ispStarter Kit	N/A	ispStarter Kit (ispLSI 1016 & 2032)	isp-SK2	N/A
Boolean Entry and Fitting	N/A	pDS	pDS1101-PC1	N/A
3000 Family Device Support Option*	N/A	pDS 3000 Upgrade	pDS1101-3UP/PC1	N/A
Simulation Options*	Viewlogic	PROsim Simulator Including Libraries	pDS3302-PC2	N/A
	Viewlogic	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Viewlogic Library and Interface	pDS1102-PC2	N/A
	OrCAD	OrCAD Library and Interface	pDS1170-PC1	N/A
	Verilog	Verilog Library	pDS1131-PC1	N/A
	VHDL	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A

Lattice Semiconductor pDS+ ABEL Environment	What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
PLD Compiler and Fitting	ABEL Compiler	pDS+ ABEL Fitter	pDS2102-PC1	pDS2102-SN1
3000 Family Device Support Option**	N/A	pDS+ ABEL 3000 Upgrade	pDS2102-3UP/PC1	pDS2102-3UP/SN1
Simulation Options**	Viewlogic	PROsim Simulator Including Libraries	pDS3302-PC2	N/A
	Viewlogic	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	Viewlogic Library and Interface	N/A	pDS1102-SN1
	OrCAD	OrCAD Library and Interface	pDS1170-PC1	N/A
	Synario	Synario Library and Interface	pDS1120-PC1	N/A
	Cadence	Cadence Library and Interface	N/A	pDS1160-SN1
	VHDL	Verilog and VHDL Simulation Libraries	pDS1131-PC1	pDS1131-SN1

* Lattice Semiconductor pDS Software is required with any of these options.
 ** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Fitter are required with any of these options.
 *** pDS3302A should be purchased in conjunction with pDS1301-PC2.

Lattice Semiconductor pDS+ Cadence Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
Capture, Simulation, and Fitting		Concept Schematic Editor Verilog-XL Simulator	pDS+ Cadence Fitter (Includes Concept Schematic Library and Verilog-XL Simulation Library)	N/A	pDS2160-SN1
		Synergy Synthesis Tool Verilog-XL Simulator Verilog-XL Simulator (Optional)	pDS+ Cadence Fitter (Includes Concept Schematic Library and Verilog-XL Simulation Library)	N/A	pDS2160-SN1
3000 Family Device Support Option**		N/A	Cadence Synergy Library	N/A	pDS1165-SN1
Simulation Options**	Cadence Verilog	Verilog-XL Simulator	pDS+ Cadence 3000 Upgrade	N/A	pDS2160-3UP/SN1
	Cadence VHDL	Leapfrog Simulator	Cadence Library and Interface	N/A	pDS1160-SN1
			Verilog and VHDL Simulation Libraries	N/A	pDS1131-SN1

Lattice Semiconductor pDS+ Exemplar Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
VHDL or Verilog-HDL Synthesis and Fitting		Logic Explorer, Antares (Exemplar) Galileo	pDS+ Exemplar Fitter Including Libraries	pDS2110-PC1	pDS2110-SN1
		N/A	pDS+ Exemplar 3000/6000 Upgrade	pDS2110-3UP/PC1	pDS2115-3UP/SN1
Simulation Options**	Viewlogic	N/A	PROsim Simulator Including Libraries	pDS3302-PC2 or pDS3302A-PC2***	N/A
	Viewlogic	PROsim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Simulator from Actel or Other Vendor	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Simulator from Xilinx	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Workview PLUS ViewSim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	Powerview ViewSim Simulator	Viewlogic Library and Interface	N/A	pDS1102-SN1
	OrCAD	VST 386+ or Simulation for Windows Simulator	OrCAD Library and Interface	pDS1170-PC1	N/A
	Verilog	OVI-Compliant Verilog Simulator	Verilog Library	pDS1121-PC1	N/A
	Cadence	Cadence Verilog Simulator	Cadence Library and Interface	N/A	pDS1160-SN1
	Vantage	Speedwave VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	pDS1131-SN1
	VHDL	Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	pDS1131-SN1
	Antares (Model Tech)	System V Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	pDS1131-SN1

** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Fitter are required with any of these options.
*** pDS3302A should be purchased in conjunction with pDS1301-PC2.

Lattice Semiconductor pDS+ CUPL Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
PLD Compiler and Fitting 3000 Family Device Support Option** Simulation Options**		CUPL Compiler	pDS+ CUPL Fitter	pDS2190-PC1	N/A
		N/A	pDS+ CUPL 3000 Upgrade	pDS2190-3UP/PC1	N/A
	Viewlogic	N/A	PROsim Simulator Including Libraries	pDS3302-PC2	N/A
	Viewlogic	PROsim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Simulator from Actel or Other Vendor	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Simulator from Xilinx	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Workview PLUS ViewSim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	OrCAD	VST 386+ or Simulation for Windows Simulator	OrCAD Library and Interface	pDS1170-PC1	N/A
	Verilog	OVI-Compliant Verilog Simulator	Verilog Library	pDS1131-PC1	N/A
	VHDL	Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A

Lattice Semiconductor pDS+ LOG/iC Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
PLD Compiler and Fitting 3000 Family Device Support Option** Simulation Options**		LOG/iC PLUS or Perfect Compiler and ODS	pDS+ LOG/iC Fitter	pDS2103-PC1	N/A
		N/A	pDS+ LOG/iC 3000 Upgrade	pDS2103-3UP/PC1	N/A
	Viewlogic	N/A	PROsim Simulator Including Libraries	pDS3302-PC2	N/A
	Viewlogic	PROsim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Simulator from Actel or Other Vendor	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Simulator from Xilinx	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Workview PLUS ViewSim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	OrCAD	VST 386+ or Simulation for Windows Simulator	OrCAD Library and Interface	pDS1170-PC1	N/A
	Verilog	OVI-Compliant Verilog Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A
	VHDL	Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A

** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Fitter are required with any of these options.
 *** pDS3302A should be purchased in conjunction with pDS1301-PC2.

Lattice Semiconductor pDS+ Mentor Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor HP Part Numbers	Lattice Semiconductor Sun Part Numbers
Capture, Simulation, and Fitting		Design Architect Schematic Editor QuickSim II Simulator	pDS+ Mentor Fitter (Includes Design Architect Schematic Library and QuickSim II Simulation Library)	pDS2150-HP1	pDS2150-SN1
		Autologic Synthesis Tool QuickSim II Simulator	pDS+ Mentor Fitter (Includes Design Architect Schematic Library and QuickSim II Simulation Library)	pDS2150-HP1	pDS2150-SN1
3000 Family Device Support Option**		N/A	Mentor Autologic Library	pDS1155-HP1	pDS1155-SN1
Simulation Options**	Mentor	QuickSim II Simulator	pDS+ Mentor 3000 Upgrade	pDS2150-3UP/HP1	pDS2150-3UP/SN1
	Cadence	Verilog-XL Simulator	Mentor Library and Interface	pDS1150-HP1	pDS1150-SN1
	VHDL	Quick VHDL Simulator or System V Simulator from Antares	Cadence Library and Interface	N/A	pDS1160-SN1
			Verilog and VHDL Simulation Libraries	pDS1131-HP1	pDS1131-SN1

Lattice Semiconductor pDS+ OrCAD Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
Capture, Simulation, and Fitting		SDT 386+ or Capture for Windows Schematic Editor VST386+ Simulation for Windows Simulator	pDS+ OrCAD Fitter (Includes Lattice Semiconductor's OrCAD Schematic Capture Libraries and Simulation Libraries)	pDS2170-PC1	N/A
PLD Compiler, Simulation, and Fitting		PLD 386+ PLD Compiler VST386+ Simulator	pDS+ OrCAD Fitter (Includes Lattice Semiconductor's OrCAD Schematic Capture Libraries and Simulation Libraries)	pDS2170-PC1	N/A
3000 Family Device Support Option**		N/A	pDS+ OrCAD 3000 Upgrade	pDS2170-3UP/PC1	N/A
Simulation Options**	Viewlogic	N/A	PROsim Simulator Including Libraries	pDS3302-PC2	N/A
	Viewlogic	PROsim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Simulator from Actel or Other Vendor	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Simulator from Xilinx	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Workview PLUS ViewSim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	OrCAD	VST 386+ or Simulation for Windows Simulator	OrCAD Libraries and Interface	pDS1170-PC1	N/A
	Verilog	OVI-Compliant Verilog Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A
VHDL		Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A

** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Fitter are required with any of these options.
*** pDS3302A should be purchased in conjunction with pDS1301-PC2.

Lattice Semiconductor pDS+ Synario Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers
GAL Compiler (Capture and ABEL Entry)	GAL Compiler (Capture and ABEL Entry)	None	ISP Synario System	ISP-SYN	N/A
	Capture, ABEL Entry Functional Simulation and Fitting (Up to 96 Macrocells)	None	ISP Synario System	ISP-SYN	N/A
	Capture, ABEL Entry and Fitting	None	ISP Synario Entry	pDS1401-PC1	N/A
	Capture, Simulation and Fitting	Synario Schematic Editor (Syn-Entry)	pDS+ Synario Fitter (Includes Synario Interface Kit*)	pDS2120-PC1	N/A
	Capture, Simulation, GAL Compiler, and Fitting	Synario Schematic Editor and ABEL Compiler (Syn-Entry)	pDS+ Synario Fitter (Includes Synario Interface Kit*)	pDS2120-PC1	N/A
3000 Family Device Support Option**		N/A	pDS+ Synario 3000 Upgrade	pDS2120-3UP/PC1	N/A
Simulation Options**	Synario	None	ISP Synario Simulator	pDS3402-PC1	N/A
	Viewlogic	None	PROsim Simulator Including Libraries	pDS3302-PC2	N/A
	Viewlogic	PROsim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	Viewlogic	PROsim Simulator from Actel or Other Vendor	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A
	Viewlogic	PROsim Simulator from Xilinx	PROsim Upgrade Including Libraries	pDS1104-PC2	N/A
	Viewlogic	Workview PLUS ViewSim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A
	OrCAD	VST 386+ or Simulation for Windows Simulator	OrCAD Library and Interface	pDS1170-PC1	N/A
	Synario	Synario Verilog Simulator	None	N/A	N/A
	Verilog	OVI-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A
	VHDL	Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A

* Includes SYNpLSI (Device Kit)

** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Fitter are required with any of these options.

*** pDS3302A should be purchased in conjunction with pDS1301-PC2.

Lattice Semiconductor pDS+ Synopsys Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor HP Part Numbers	Lattice Semiconductor Sun Part Numbers
Synthesis and Fitting Synthesis and Fitting Synthesis and Fitting		Design Compiler-Expert Synthesis Tool	pDS+ Synopsys Fitter (Includes Lattice Semiconductor Synopsys Libraries)	pDS2140-HP1	pDS2140-SN1
		Design Compiler-Professional Synthesis Tool	pDS+ Synopsys Fitter (Includes Lattice Semiconductor Synopsys Libraries)	pDS2140-HP1	pDS2140-SN1
		FPGA Compiler Synthesis Tool	pDS+ Synopsys Fitter (Includes Lattice Semiconductor Synopsys Libraries)	pDS2140-HP1	pDS2140-SN1
3000 Family Device Support Option**		N/A	pDS+ Synopsys 3000 Upgrade	pDS2140-3UP/HP1	pDS2140-3UP/SN1
Simulation Options**	Synopsys	VSS Simulator	Verilog and VHDL Simulation Libraries	pDS1131-HP1	pDS1131-SN1
	Viewlogic	Powerview ViewSim Simulator	Viewlogic Library and Interface	N/A	pDS1102-SN1
	Mentor	Quicksim II Simulator	Mentor Library and Interface	pDS1150-HP1	pDS1150-SN1
	Cadence	Verilog-XL Simulator	Cadence Library and Interface	N/A	pDS1160-SN1
	Verilog	OVI-Compliant Verilog Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	N/A
	VHDL	Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-HP1	pDS1131-SN1

Synopsys Synthesis in Other Third-Party/Lattice Semiconductor pDS+ Environments		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor HP Part Numbers	Lattice Semiconductor Sun Part Numbers
Synthesis and Fitting in the Cadence Environment	Synthesis and Fitting in the Cadence Environment	Any Synopsys Synthesis Tool and Cadence Concept Schematic Editor	pDS+ Cadence Fitter	N/A	pDS2160-SN1
			Lattice Semiconductor Synopsys Synthesis Libraries	N/A	pDS1140-SN1
Synthesis and Fitting in the Mentor Environment	Synthesis and Fitting in the Mentor Environment	Any Synopsys Synthesis Tool and Mentor Design Architect Schematic Editor	pDS+ Mentor Fitter	pDS2150-HP1	pDS2150-SN1
			Lattice Semiconductor Synopsys Synthesis Libraries	pDS1140-HP1	pDS1140-SN1
Synthesis and Fitting in the Viewlogic Environment	Synthesis and Fitting in the Viewlogic Environment	Any Synopsys Synthesis Tool and Viewlogic ViewDraw Schematic Editor	pDS+ Viewlogic Fitter	N/A	pDS2101-SN1
			Lattice Semiconductor Viewlogic Library and Interface	N/A	pDS1102-SN1
			Lattice Semiconductor Synopsys Synthesis Libraries	N/A	pDS1140-SN1

** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Fitter are required with any of these options.
*** pDS3302A should be purchased in conjunction with pDS1301-PC2.

Lattice Semiconductor pDS+ Viewlogic Environment		What You Have or Need from a Third-Party Vendor	What You Need From Lattice Semiconductor	Lattice Semiconductor PC Part Numbers	Lattice Semiconductor Sun Part Numbers	Sun Solaris 2 O/S
Capture and Fitting	VHDL Synthesis and Fitting	None	pDS+ Viewlogic Filter	pDS2101-PC2	N/A	N/A
			PROcapture Schematic Editor	pDS1301-PC2	N/A	N/A
Capture and Fitting	VHDL Synthesis and Fitting	None	pDS+ Viewlogic Filter	pDS2101-PC2	N/A	N/A
			PROsynthesis Synthesis Tool	pDS3305A-PC2	N/A	N/A
Capture and Fitting	VHDL Synthesis and Fitting	PROcapture or ViewDraw Schematic Editor	PROcapture Schematic Editor (Required in Synthesis Flow)	pDS1301-PC2	N/A	N/A
			pDS+ Viewlogic Filter	pDS2101-PC2	pDS2101-SN1	pDS2101-SN2
Capture and Fitting	VHDL Synthesis and Fitting	PROcapture or ViewDraw Schematic Editor and PROsynthesis or ViewSynthesis Synthesis Tool	Viewlogic Library and Interface	pDS1102-PC2	pDS1102-SN1	pDS1102-SN2
			pDS+ Viewlogic Filter	pDS2101-PC2	pDS2101-SN1	pDS2101-SN2
Capture and Fitting	VHDL Synthesis and Fitting	Viewlogic Synthesis Library	Viewlogic Synthesis Library	pDS1105-PC2	pDS1105-SN1	pDS1105-SN1
			Viewlogic Library and Interface	pDS1102-PC2	pDS1102-SN1	pDS1102-SN2
Capture and Fitting	VHDL Synthesis and Fitting	ViewPLD Compiler	pDS+ ABEL Filter	pDS2102-PC1	pDS2102-SN1	N/A
			pDS+ Viewlogic 3000 Upgrade	pDS2101-3UP/PC2	pDS2101-3UP/SN1	pDS2101-3UP/SN1
Capture and Fitting	VHDL Synthesis and Fitting	N/A	PROsim Simulator Including Libraries	pDS3302-PC2 or pDS3302A-PC2***	N/A	N/A
			Viewlogic Library and Interface	pDS1102-PC2	N/A	N/A
Capture and Fitting	VHDL Synthesis and Fitting	PROsim Simulator from Actel or Other Vendor	PROsim Upgrade Including Libraries	pDS1103-PC2	N/A	N/A
			PROsim Upgrade Including Libraries	pDS1104-PC2	N/A	N/A
Capture and Fitting	VHDL Synthesis and Fitting	Workview PLUS ViewSim Simulator	Viewlogic Library and Interface	pDS1102-PC2	N/A	N/A
			Viewlogic Library and Interface	N/A	pDS1102-SN1	pDS1102-SN2
Capture and Fitting	VHDL Synthesis and Fitting	VST 386+ or Simulation for Windows Simulator	ORCAD Library and Interface	pDS1170-PC1	N/A	N/A
			Verilog Library	pDS1131-PC1	pDS1131-SN1	N/A
Capture and Fitting	VHDL Synthesis and Fitting	Cadence Verilog Simulator	Cadence Library and Interface	N/A	pDS1160-SN1	N/A
			Verilog and VHDL Simulation Libraries	pDS1131-PC1	pDS1131-SN1	N/A
Capture and Fitting	VHDL Synthesis and Fitting	Vital-Compliant VHDL Simulator	Verilog and VHDL Simulation Libraries	pDS1131-PC1	pDS1131-SN1	N/A

** The appropriate third-party front end tools and the Lattice Semiconductor pDS+ Filter are required with any of these options.
*** pDS3302A should be purchased in conjunction with pDS1301-PC2.



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