ispLEVER Upgrade

Take Your Designs to a Higher Level

Upgrade Your ispLEVER Tools

Lattice's ispLEVER®-Starter software provides easy access to design for select FPGA products while ispLEVER Classic gives you access to established programmable logic families. As your design requirements and silicon density needs grow, consider the benefits of upgrading your ispLEVER software to gain complete access to the full features and capabilities of the ispLEVER tools.

The ispLEVER upgrade gives you access to additional software tools and hardware options not found in ispLEVER-Starter or ispLEVER Classic. These additional tools and options enhance design flexibility and help you go from concept to market in record time. A wide range of higher-density FPGA devices, design definition, verification and debug tools are available only in the upgrade version.

Key Benefits of Upgrading

- **Access to All Lattice Programmable Logic Products**
- **More Powerful Synthesis and Simulation Tools**
- **Long-term Renewable License**
- **Automatic Updates**
- **UNIX/Linux Operating Systems Versions**
- **ispLEVER PRO Includes Access to a Suite of IP Cores**

In today's rigidly specified design environments every picosecond counts. Ensure you're getting the most from your design by using Synplify Pro® for Lattice. This powerful synthesis tool from Synopsys® includes a comprehensive set of implementation tools to help you optimize your design.

Verify your design's performance with Active-HDL® Lattice Edition from Aldec®. This full-featured simulation environ-

Project Navigator

FPGA Design Planner

IPexpress™

ment give you better performance and more features than the downloadable Web Edition.

Upgrading to the complete ispLEVER tools also provides access to the complete portfolio of Lattice programmable products. These include the LatticeSC™, LatticeSCM™, LatticeECP3™ and LatticeECP2M™ FPGA families.

When you upgrade your ispLEVER tools, you will automatically receive major software updates as they are released. These updates include access to the newest Lattice programmable technologies, and enhancements to the design tool set.
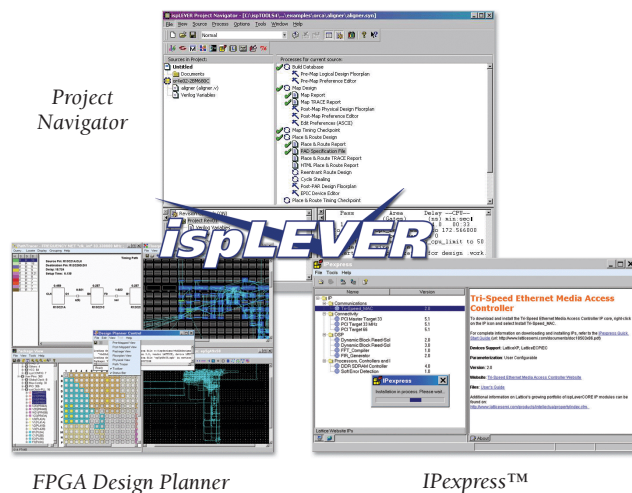
You can also choose to upgrade to ispLEVER in UNIX and Linux versions, giving you more options as you grow your design tool platform.

The standard ispLEVER upgrade includes one year of software maintenance. With active software maintenance, you will receive the latest ispLEVER releases as they're available.

The PC- and Linux-based ispLEVER upgrade packages include Lattice's USB download cable.

ispLEVER PRO

By upgrading to ispLEVER PRO, you'll get all the same ispLEVER features, plus the Lattice IP core Value Suite. This IP suite includes DDR and DDR2 controllers, FFT compiler, FIR filter and the Tri-speed Ethernet MAC. ispLEVER PRO is available on a 1-year subscription license, with extensions available.

Lattice Software Offering

	ispLEVER	ispLEVER PRO	ispLEVER Starter	ispLEVER Classic
Lattice FPGA/CPLD Support				
LatticeECP3, LatticeECP2M/S, LatticeSC/M, FreedomChip™	✔	✔		
LatticeECP2/S	✔	✔	LatticeECP2 Only	
MachXO™, LatticeECP/EC, LatticeXP™, LatticeXP2™	✔	✔	✔	
ispXPGA®, ORCA®, ispXPLD®, ispMACH™, ispLSI®, ispGDX/2, ispGAL®, GAL®				✔
Key Software Features				
Project Navigator (Design Management)	✔	✔	✔	✔
sysDSP™ Library for MATLAB®/Simulink®	✔	✔		
Block Modular Design for FPGAs	✔	✔	✔	
IPexpress™ (IP & Module Configuration)	✔	✔	✔	
Module/IP Manager (Module Configuration)				✔
Power Calculator	✔	✔	✔	
IP Value Suite		✔		
Static Timing Analyzer/Performance Analyst	✔	✔	✔	✔
Lattice Logic Simulator				✔
HDL/SDF Export	✔	✔	✔	✔
HDL Explorer™	✔	✔		
Constraint/Preference Editor				✔
Design Planner	✔	✔	✔	
I/O Assistant	✔	✔	✔	
Reveal Logic Analyzer	✔	✔	✔	
3rd-Party Software Included				
Synplify for Lattice - Synthesis from Synplicity			✔	✔
Synplify Pro for Lattice - Synthesis from Synplicity	✔	✔		
Active-HDL Lattice Edition - Simulation from Aldec	Windows Only	✔		
Active-HDL Lattice Web Edition - Simulation from Aldec			✔	✔
Operating Systems and Ordering Information				
Windows – 2000, XP, Vista (32-bit)	✔ (LS-HDL-BASE-PC-N)	✔ (LS-HDL-PRO-PC-N)	✔	✔
Linux – Redhat Enterprise v.3 and v.4, , Novell SUSE Enterprise v10 SP1	✔ (LS-ADV-LS-F Includes Classic Linux)			With ispLEVER purchase
UNIX – Solaris 2.8, 10	✔ (LS-ADV-WS-F Includes Classic UNIX)			With ispLEVER purchase
Licensing and Updates				
License Terms	Perpetual	1 Year Subscription Extensions Available	6 Months, Renewable	1 Year, Renewable
Node-Locked License	Windows	✔	✔	✔
Floating License	Windows: Upgrade Available		N/A	N/A
Software Service Packs	Downloadable	Downloadable	N/A	N/A
Software "New Version" Upgrades	Included with Valid Software Maintenance	Included with Software Subscription License	Downloadable	Downloadable

To Purchase ispLEVER

To purchase your ispLEVER upgrade, visit the Lattice on-line store at www.latticesemi.com/store, or contact your local Lattice sales representative at www.latticesemi.com/sales.

ispLEVER Product Pricing

Product	Part Number	List Price
ispLEVER (Windows)	LS-HDL-BASE-PC-N	$895
ispLEVER PRO (Windows)	LS-HDL-PRO-PC-N	$1495
ispLEVER (Linux)	LS-ADV-LX-F	$1495
ispLEVER (UNIX)	LS-ADV-WS-F	$1495

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I0205
February 2009