LatticeECP3 Versa Development Kit

Industry's Lowest Cost Design Platform for FPGAs with Configurable SERDES

PROMOTIONAL PRICING HAS EXPIRED
CONSULT LATTICE WEB SITE FOR CURRENT PRICING

The LatticeECP3™ Versa™ Development Kit is a versatile platform for building leading edge systems in a variety of industries. It brings high-end innovations such as configurable SERDES, cascadable DSP slices, and high-speed DDR3 memory within the reach of mainstream designers in an easy to use environment. Customers outgrowing the capabilities of traditional microcontrollers and DSPs will be able to use the Versa kit to develop efficient FPGA solutions to address their emerging high-speed design challenges in applications as varied as Video Transmission and Repeaters, Video Image Signal Processing, Camera Controllers, Network Traffic Management, Resilient Network Construction, and Data Acquisition and Conrol.

Versa Kit Component	Description	
LatticeECP3 Versa Evaluation Board	• Industry's Lowest Cost Platform for PCI Express and Gigabit Network Design • Platform to Showcase LatticeECP3 SERDES	
	Interfaces	• PCI Express 1.1 x1 Edge Connector Interface • Two Gigabit Ethernet Ports (RJ45) • USB Mini for FPGA Programming
	Components	• LatticeECP3 FPGA: LFE3-35EA-8FN484C • 64 Mbit Serial Flash memory • 1 Gbit DDR3 Memory • Switches, LED, and Displays
	Connectors	• 4 SMA Connectors for SERDES Access • Two 2x20 Expansion Connectors
Diamond License	• Free one-year evaluation license valid only for use with Versa Kit	
Demo Systems	• SERDES Eye Demo • 4 PCI Express Demos • Gigabit Ethernet MAC Demo using Mico32 • DDR3 Memory Controller Demo	
Reference Designs	• 16 Free Reference Designs	
Documentation	• LatticeECP3 Product Brief • User's Guides for Versa Board and 7 Demos	

Diverse Applications

The feature-rich Versa Kit and agile LatticeECP3 FPGAs can be used to solve a range of tough design problems in diverse industries – transition to serial interfaces, implementation of innovative protocols, precision controllers, and real-time data processing. The table below lists sample applications of LatticeECP3 FPGAs in various markets.

Diversified Markets	Applications
Industrial Networking	Efficient but Proprietary Protocols with Less Overhead
	Transmission Range Extension
	Fault-tolerant Network Construction
Consumer, Medical, and Industrial Electronics	Transition of 7:1 LVDS To Serial Interfaces
	Medical Imaging Camera Controller
	Digital Signage
Defense, Scientific, and Test & Measurement	Sensor Data Collection and Analysis
	DDR3 memory Test Systems
	High-speed ADCs and DACs
Green Industries	LED Lighting Controllers
	Solar Inverter Controllers
	Smart Grid Controllers
Communication	Small Form-factor Pluggable Transceivers
	Traffic Management with Packet Manipulation
	Digital Pre-distortion to Increase Dynamic Range

Attractive Promotion and Availability

Lattice is offering a limited quantity promotion on the all-inclusive LatticeECP3 Versa Development Kit to encourage new, qualified customers to build their next generation systems with LatticeECP3 FPGAs. The regularly priced $299 Versa Kit is available for only $99 while the promotional quantities last. The kit is available for immediate ordering via the Lattice online store at www.latticesemi.com/store and through the authorized Lattice distributors listed at www.latticesemi.com/sales.

Learn More

For more information about how LatticeECP3 Versa Development Kit can bring value to your system design projects, please contact your local sales representative.

Quick Links

VERSA EVALUATION KIT
www.latticesemi.com/ecp3versa

LatticeECP3 FPGA FAMILY
www.latticesemi.com/ecp3

IP SUITES
www.latticesemi.com/IPSuites

LATTICE DIAMOND SOFTWARE
www.latticesemi.com/latticediamond

SALES
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APPLICATIONS SUPPORT
www.latticesemi.com/techsupport

CORPORATE HEADQUARTERS

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Ordering Information

Product	Contents	Ordering Number
LatticeECP3 Versa Development Kit	LatticeECP3 Versa Evaluation Board	LFE3-35EA-VERSA-EVN
	USB A to USB B (Mini) Cable for FPGA Programming	
	Lattice Diamond™ Design Software (Evaluation License)	
	12V AC Power Adapter & International Plug Adapters	
	QuickSTART Guide	

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