

Features

- SUPPORTS ALL ispLSI® 1000, 1000E, 1000EA, 2000/A, 2000E, 2000VL, 2000VE, 2000V, 3000, 5000V AND 8000V DEVICE FAMILY MEMBERS
- STAND-ALONE DEVICE PROGRAMMER
- DOWNLOAD DIRECTLY TO AN ISP DEVICE ON A SYSTEM BOARD
 - Only Five Control/Data Pins Needed
- QUICK DEVICE PROGRAMMING
- INEXPENSIVE, SMALL AND COMPACT
 - Eliminates Need For Expensive, Remote Programmer
- EXCELLENT FOR PROTOTYPING NEW DESIGNS
 - Not Intended For Production Programming
- EASY TO USE
- CONNECTS DIRECTLY TO PARALLEL PRINTER PORT OF HOST PC

Description

The ISP Engineering Kit Model 100 provides designers with a quick and inexpensive means of evaluating and prototyping new designs using Lattice Semiconductor's in-system programmable Large Scale Integration (ispLSI) devices. This Kit is designed for engineering purposes only and is not intended for production use. The Kit programs devices from the parallel printer port of a host PC using Lattice's ispLEVER™ Development System software. By connecting a system cable (included) from a host PC to the ISP Engineering Kit, or connecting from the host PC to the target device on the system board, a JEDEC file can be easily downloaded into the ispLSI device(s).

Components

The ISP Engineering Kit Model 100 consists of two primary components, each sold separately:

- Universal Programming Module (UPM)
- Socket adapters (The adapters plug into the UPM base. The adapter provides the appropriate PLCC, PQFP, TQFP or MQUAD socket for a particular ispLSI device package).



ISP Engineering Kit Model 100

UPM Description

The Model 100 Universal Programming Module is designed to support all package types available from Lattice. It consists of the following components:

- Universal programming module base unit
- 110VAC/9VDC at 200mA power supply converter (included for North America and Asia only)
- 25-pin parallel port adapter
- 6' system download cable with an RJ-45 telephone style connector at each end

The connection between the host PC and the UPM base unit is shown in Figure 1.

Electrical Characteristics

Power Supply (North America and Asia Only)

AC Input Voltage: 110 VAC
DC Output Voltage: 9 VDC @ 200mA

UPM Physical Characteristics

Length: 3.75 inches
Width: 2.625 inches
Depth: 1.375 inches

Download Cable

System Download Cable with RJ-45 Connectors

Length: 6.0 feet (192.8 cm)
Connectors: RJ-45 to RJ-45 connector

Socket Adapter Information

For a complete list of socket adapters for ispLSI devices, see the *ispGAL*[®], *ispLSI* and *ispGDX*[®] *Socket Adapters* document on the Lattice Data Book CD-ROM or the Lattice web site at www.latticesemi.com.

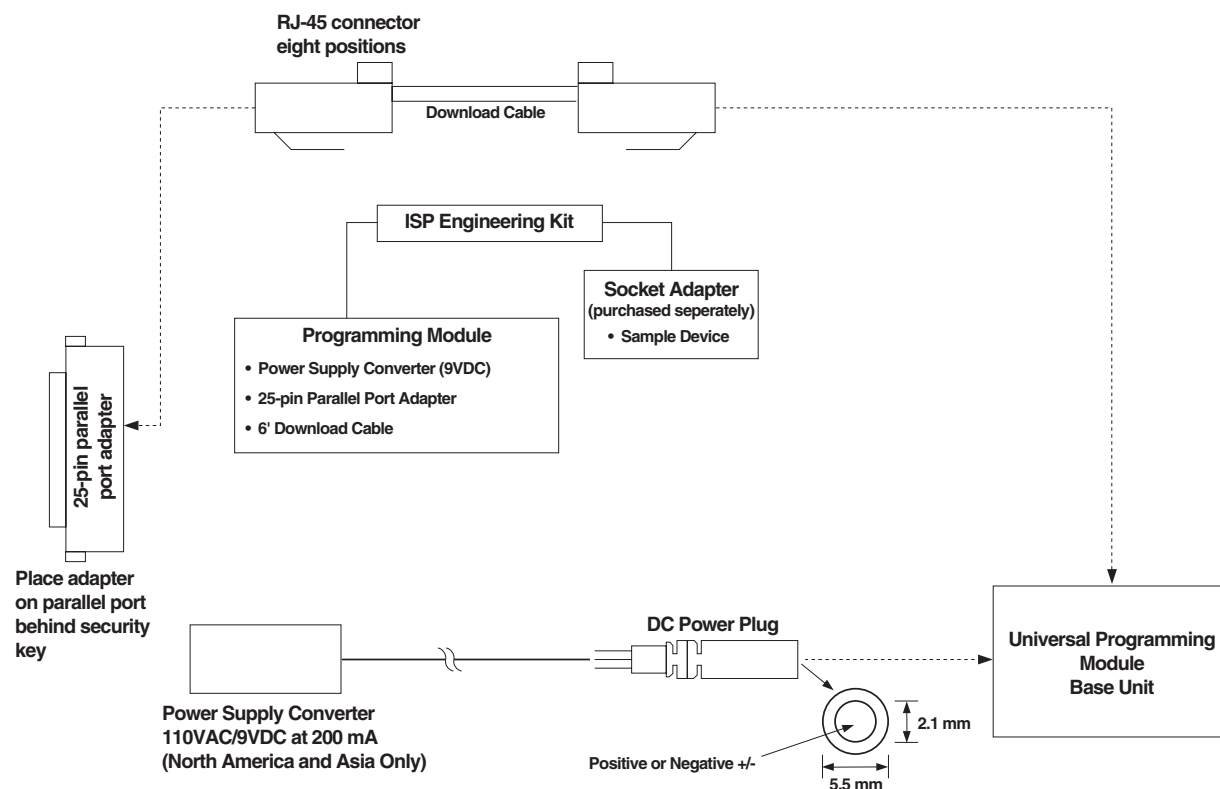
Product Ordering Information

Product Description	Part Number
ISP Engineering Kit Model 100 for the PC (North America and Asia only)	pDS4102-PM
ISP Engineering Kit Model 100 for the PC (European Model, No Power Adapter)	pDS4102E-PM

Technical Support Assistance

Hotline: 1-800-LATTICE (Domestic)
1-408-826-6002 (International)
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Figure 1. Universal Programming Module Description



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