

BOSSHARD ELEKTRONIK

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ispLSI5256VA - Demoboard

Features

- Download directly from a PC parallel port with the Lattice Download-cable
- Easy access to all device-pins via double-row headers (can be connected to standard flat-cable socket connectors)
- Standard 5V Supply. On board 3,3V - Regulator
- Big prototyping area for your own circuitry
- 4 Digit 7-segment LED display
- On board oscillator (4 MHz)
- User switches connected to CPLD:
 - 4 User-Keys
 - Reset-Key
 - 8 DIP-switches
- Excellent for prototyping new designs, evaluating the Lattice 5kVA device-family and education purposes

Description

The board holds a Lattice ispLSI5256VA-100LB208 In-System-Programmable CPLD in a 208-pin BGA Package. A small demo is already programmed at delivery of the board. The source-code and JEDEC-file can be downloaded from our web-page (starting Dec. 99). All I/O's and control pins are available at double row headers for easy connection to peripheral circuits. The headers interface to standard flat-cable connectors. The device can be programmed via the JTAG-Interface by using a standard Lattice Download-Cable. The devices are based on advanced EEPROM technology

and they are reprogrammable min. 10'000 times. This allows the board to be reused for different projects.

An external 2,5V supply can be connected to VCCIO. All clock- and control-signals are available at the headers.

The on-board oscillator runs at 1MHz and can be used for standalone-operation.

The prototyping area can be used to add user-defined circuits directly on the board.

Specifications

- Physical Dimension: 100mm x 160mm
- Operating Temperature: 0 - 70°C
- Power-Supply: 5VDC / 1A
- VCCIO: 2,5VDC / 30mA (optional)
- I/O-Connection: 50-pin double row 0.1 inch (2,54mm) pitch headers (4x)
- Control-Pin Connection: 10-pin double row 0.1 inch (2,54mm) pitch header

Additional accessories

The following items will be needed to successfully use the demoboard:

- Design-software, which will generate the JEDEC-file for device-programming.
- Download-Cable and Download-Software
- 5V Power-supply

Above articles and can be ordered at Lattice Semiconductor, the regional Sales Representative or Distributor.

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November 1999

Kit Contents

- ispLSI5256VA - Demoboard with preprogrammed Demo-Application
- Schematic of the Board
- User's Guide

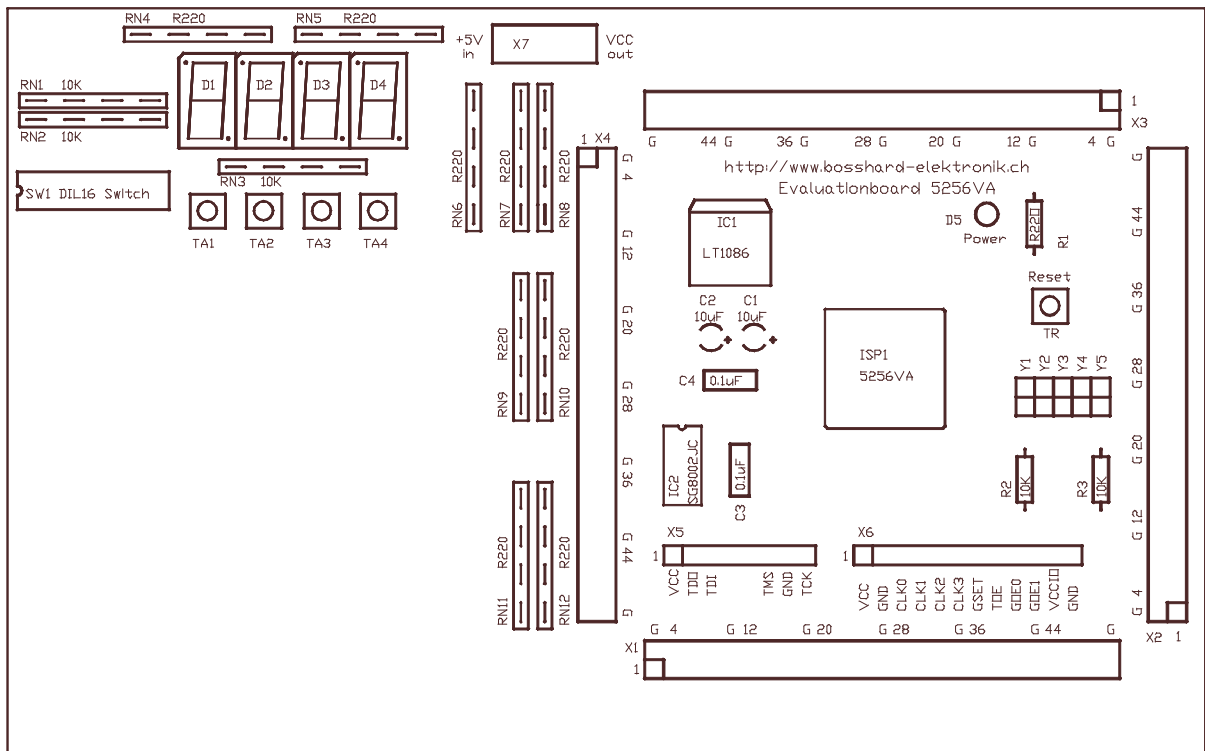
The Demo-Application (source) is available for Download from our website.

The ispLSI5256VA - Datasheet and a free Starter-Software are available at the Lattice Homepage: www.latticesemi.com

Ordering Information

Please check our Homepage (www.bosshard-elektronik.ch) for an updated list of resellers.

You can contact us via email: demoboard@bosshard-elektronik.ch



Silkscreen of the Demoboard

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