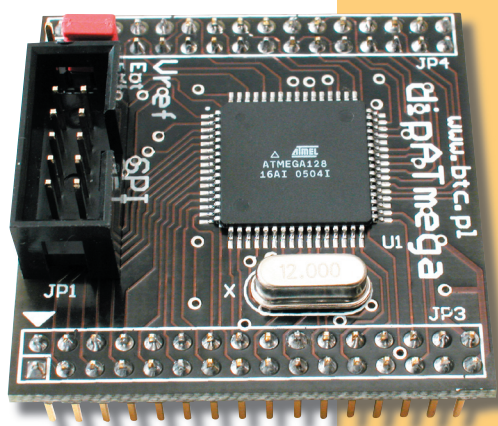


## Mini-module with ATmega128 microcontroller

dip ATmega128



*ZL7AVR is an easy to use versatile mini-module based on Atmels ATmega128 microcontroller (AVR enhanced RISC architecture). In ZL7AVR module all ports and signals of the microcontroller are available on two-row pin connectors with 0.1' pitch (pin headers). In addition, we offer prototype board ZL8AVR.*

## Key features

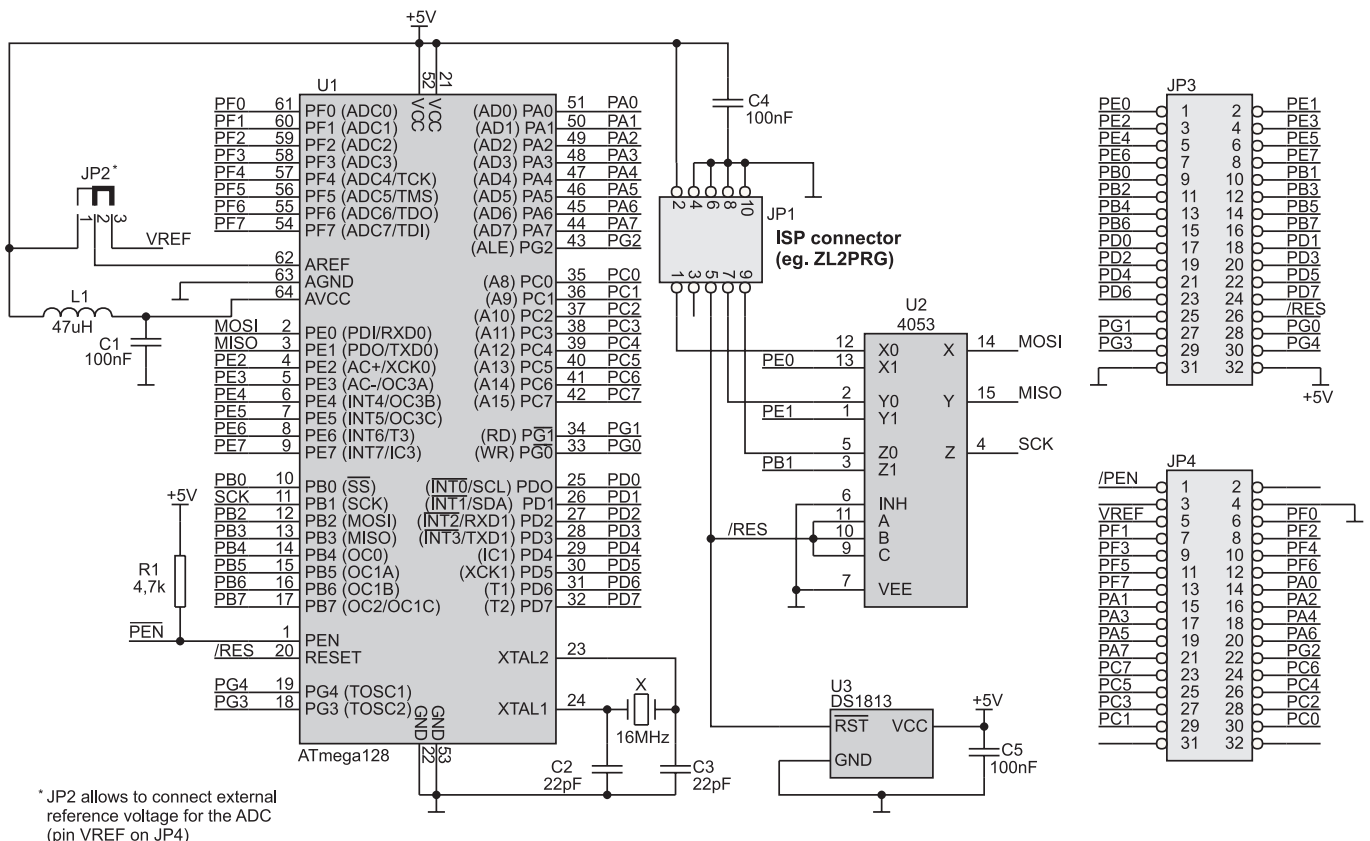
- ▶ ATmega128 microcontroller (high speed RISC CPU with 128kBytes FLASH program memory, 4kBytes SRAM, 4kBytes EEPROM)
- ▶ 2x32 connectors with pitch 0.1" (2.54 mm) for connecting user-designed base-board or ZL8AVR prototype base board
- ▶ 16MHz resonator
- ▶ 10-pin ISP programming connector allows to attach any programmer compatible with STK200 (eg. ZL2PRG) with bus multiplexer
- ▶ Reset/power fail detector (DS1813)
- ▶ 53 I/O lines
- ▶ PCB and SCH libs for Protel 99/DXP/2004 are available
- ▶ Supply voltage: 5VDC
- ▶ Dimensions: 43mm x 43mm x 20mm



PCB and SCH libraries for Protel 99/DXP/2004 are available:

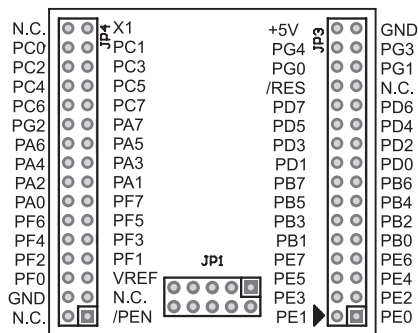
[http://www.kamami.com/pdf/zl7avr\\_libs.zip](http://www.kamami.com/pdf/zl7avr_libs.zip).

## Schematic diagram

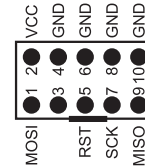


\* JP2 allows to connect external reference voltage for the ADC (pin VREF on JP4)

## Pin description

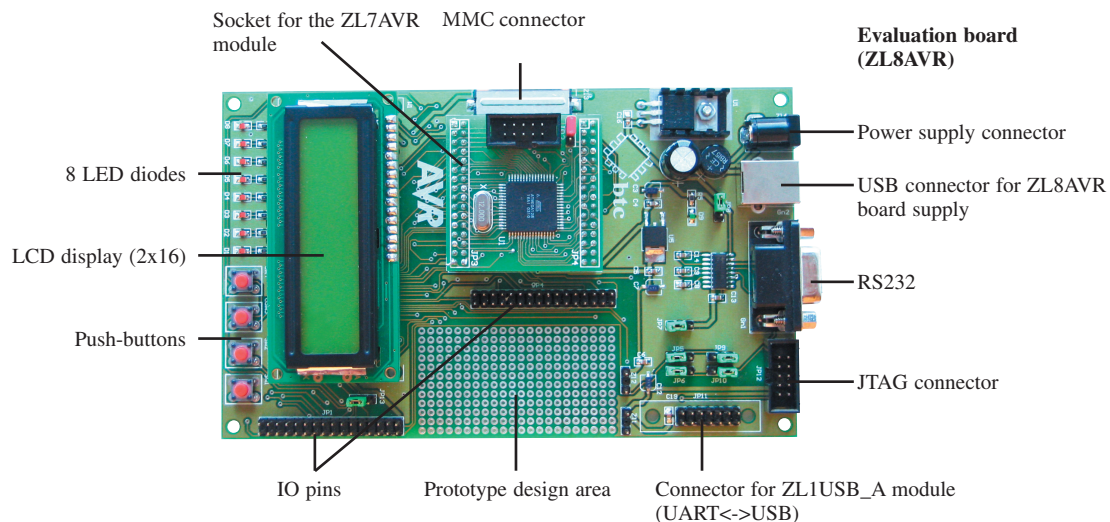


### JP1 – ISP connector



## Evaluation board

In order to developing projects with ZL7AVR more effectively, an evaluation board has been prepared. It includes the following elements:



## Contents of package

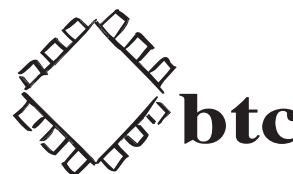
Ordering code	Description
ZL7AVR	▶ Mini-module assembled and tested.

## Technical assistance

For technical assistance, please contact [support@kamami.com](mailto:support@kamami.com).

Please provide the following data:

- ▶ Version of the operating system
- ▶ Microcontroller type used in your system and its oscillator frequency
- ▶ Detailed description of the problem



BTC Korporacja  
05-120 Legionowo, Poland  
ul. Lwowska 5  
e-mail: [office@kamami.com](mailto:office@kamami.com)  
<http://www.kamami.com>

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