

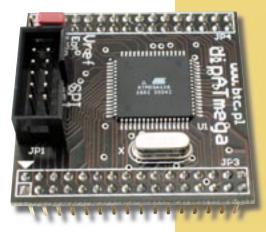
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# **ZL7AVR**

dir Tmegal28

## Mini-module with ATmega128 microcontroller



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**

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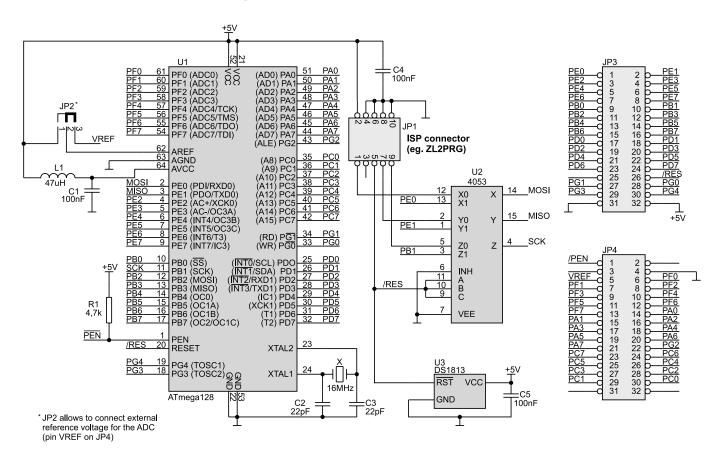
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- ATmega128 microcontroller (high speed RISC CPU with 128kBytes FLASH program memory, 4kBytes SRAM, 4kBytes EEPROM);
- 2 x 32 connectors with pitch 0.1' (2.54 mm) for connecting user-designed base-board or ZL8AVR prototype base board;
- 16MHz resonator;
- 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.

### **Schematic diagram**



## **Pin description**

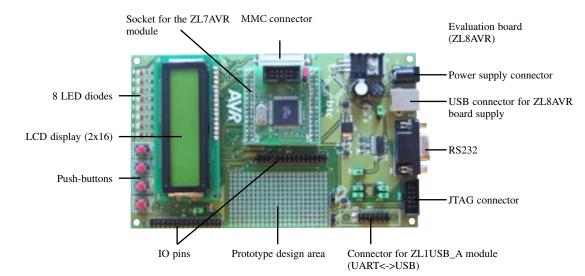
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N.C.	00	<b>r</b> X1		+5V	000	GND
PC0	00	BPC1		PG4	<b>B</b> OO	PG3
PC2	00	PC3		PG0	00	PG1
PC4	00	PC5		/RES	00	N.C.
PC6	00	PC7		PD7	00	PD6
PG2	00	PA7		PD5	00	PD4
PA6	00	PA5		PD3	00	PD2
PA4	00	PA3		PD1	00	PD0
PA2	00	PA1		PB7	00	PB6
PA0	00	PF7		PB5	00	PB4
PF6	00	PF5		PB3	00	PB2
PF4	00	PF3		PB1	00	PB0
PF2	00	PF1	JP1	PE7	00	PE6
PF0	00	VREF		PE5	00	PE4
GND	00	N.C.	00000	PE3	00	PE2
N.C.	0	/PEN		PE1	00	PE0

#### 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:



### **Standard equipment**

Ordering code	Description	
ZL7AVR	Mini-module assembled and tested.	



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