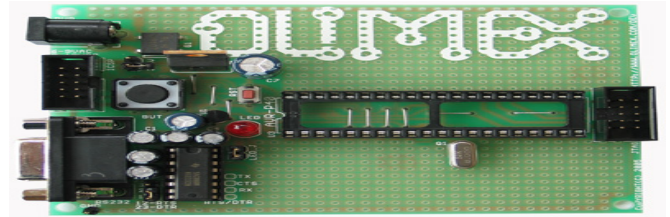




## Olimex - AT90S8535 - MCU - Evaluation Board

### Product Overview:

AVR-P40-8535 is a simple board which uses the MCU AT90S8535 from Atmel. With its button, and variety of interfaces such as RS232 (in two variants – 4 pins and DB9), JTAG, ISCP, etc. this board is suitable for different embedded systems applications.



### Key Features:

- STK200 compatible ICSP 5x2 pin connector for in-circuit programming with AVR-PG1 or AVR-PG2
- JTAG 5x2 pin connector for in-circuit programming and debugging with AVR-JTAG-USB and AVR-JTAG-L
- RS232 Tx, Rx interface with MAX232 IC on socket
- 8 MHz crystal on socket (user can replace with any value)
- reset IC ZM33064
- reset button
- general purpose push button
- status LED connected to PB0 via removable jumper
- DIL40 microcontroller socket
- Power plug-in jack
- selectable +3.3V / +5V power supply voltage regulator
- extension pin headers for each uC pin
- four mounting holes 3.3 mm (0.13")
- GND bus
- Vcc bus
- FR-4, 1.5 mm (0,062"), green solder mask, white silkscreen component print
- dimensions 100x80 mm (3.9x3.15")

### Ordering Information:

#### Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
AVR-P40N-8535-8MHZ	Olimex	1701518	25R4414

## Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MAX232ACPE+	Maxim	RS232 Transceiver	9723773	68K4544
MC78L05ABDG	On Semiconductor	5V, Voltage Regulator	1014073	71J5712
8100	Videk	DB9 Plug	1525738	NA

## Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
AVR-P20B-10MHZ	Olimex	STK200 Compatible Board	STK200	1776314	52R3437
AVR-P28N-8MHZ	Olimex	STK200 Compatible Board	STK200	1776315	52R3438

## Document List:

## Datasheets:

Part Number	Description	Size
AT90S8535	<a href="#">8-bit Microcontroller with 8K Bytes</a>	2.39MB
MC78L05A	<a href="#">3-Terminal 0.1A Positive Voltage Regulator</a>	188KB
MAX232	<a href="#">+5V-Powered, Multichannel RS-232 Drivers/Receivers</a>	354KB

## Application Notes:

File Name	Size
<a href="#">AVR040: EMC Design Considerations</a>	105KB
<a href="#">AVR042: AVR Hardware Design Considerations</a>	196KB
<a href="#">AVR103: Using the EEPROM Programming Modes</a>	76KB
<a href="#">AVR105: Power efficient high endurance parameter storage in Flash memory</a>	145KB
<a href="#">AVR130: Setup and use the AVR Timers</a>	179KB

## Hardware & Software:

File Name	Size
<a href="#">avr-p40-8535-sch.gif</a>	29KB
<a href="#">avr-icsp-10.gif</a>	1.29KB
<a href="#">AVR-P40-8535-BlinkingLed.zip</a>	7.91KB
<a href="#">AVR-P40-8535-UART.zip</a>	7.4KB
<a href="#">AVR-P40-8535-Button.zip</a>	7.3KB
<a href="#">AVR-P40-8535-UART_Menu.zip</a>	11.7KB