Product Overview:

AVR-MT128 is simple but powerful board which uses the MCU ATMega128 from Atmel. With its LCD, button, relay and variety of interfaces such as RS232 (in two variants – 4 pins and DB9), JTAG, ISCP, Dallas, etc. this board is suitable for different embedded systems applications.

Key Features:

- MCU: ATMega128-16AI with 128K Bytes Program Flash, 4K Bytes data EEPROM, 4K Bytes RAM
- JTAG connector for in-circuit programming and debugging with AVR-JTAG
- ICSP 5x2 (10) pin STKxxx compatible connector for in-circuit programming with AVR-PG1B or AVR-PG2B
- RS232 connector with TTL levels
- RS232 interface circuit with Tx, Rx signals
- RS232 DB9 female connector
- Dallas touch button port
- Frequency input
- LCD 16x2 display
- LED status
- five buttons
- Buzzer
- power supply circuit +5V, 78L05 with plug-in power jack and diode bridge
- 32 768 Hz oscillator crystal
- 16 MHz crystal oscillator
- power supply filtering capacitor
- RESET supervisor IC ZM33064
- RELAY with 10A/250VAC NO and NC contacts with screw terminals
- extension headers for unused in the schematic ports available for external connection
- PCB: FR-4, 1.5 mm (0.062"), green solder mask, white silkscreen component print
- four mounting holes 3.3 mm (0.13")
- Dimensions: 120x38 mm (4.7x1.5")
Ordering Information:

Products:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Farnell P/N</th>
<th>Newark P/N</th>
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<tbody>
<tr>
<td>AVR-MT128</td>
<td>Olimex</td>
<td>1701521</td>
<td>25R4413</td>
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Associated Products:

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<th>Description</th>
<th>Farnell P/N</th>
<th>Newark P/N</th>
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<tbody>
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<td>ATMEGA128-16AU</td>
<td>Atmel</td>
<td>8Bit 16K Flash MCU</td>
<td>9171118</td>
<td>95K7364</td>
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<td>MC78L05ABDG</td>
<td>On Semiconductor</td>
<td>5V, Voltage Regulator</td>
<td>1014073</td>
<td>71J5712</td>
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<td>8100</td>
<td>Videk</td>
<td>DB9 Plug</td>
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Similar Products:

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<th>Description</th>
<th>Support Device</th>
<th>Farnell P/N</th>
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<tr>
<td>AVR-GSM</td>
<td>Olimex</td>
<td>AVR-GSM - BOARD</td>
<td>ATmega32</td>
<td>1776311</td>
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<td>ATMEGA128 BOARD</td>
<td>ATmega128-16AI</td>
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<td>ATVARSB200</td>
<td>Olimex</td>
<td>AVR Smart Battery Ref Design</td>
<td>ATmega16HVA, ATmega8HVA</td>
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Document List:

Datasheets:

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<th>Size</th>
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<tr>
<td>ATmega128</td>
<td>8-bit Microcontroller with 16K Bytes</td>
<td>6.06MB</td>
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<tr>
<td>MC78L05A</td>
<td>3-Terminal 0.1A Positive Voltage Regulator</td>
<td>188KB</td>
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Application Notes:

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

Hardware & Software:

<table>
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<tr>
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<td>avr-jtag.gif</td>
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<td>avr-icsp-10.gif</td>
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<td>avr-mt-128-test.zip</td>
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<td>avr-mt-128_Relay.zip</td>
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<td>avr-mt-128_Miscellaneous.zip</td>
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