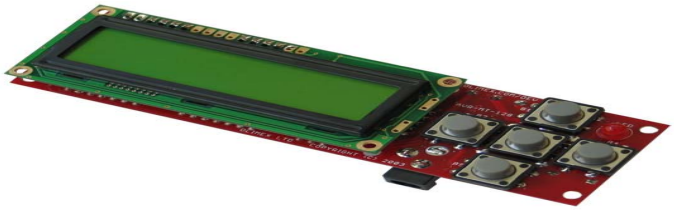
Olimex - ATMega128 - MCU – Evaluation Board

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 with128K 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:

Part Number	Manufacturer	Farnell P/N	Newark P/N
AVR-MT128	Olimex	1701521	25R4413

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
ATMEGA128-16AU	Atmel	8Bit 16K Flash MCU	9171118	95K7364
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-GSM	Olimex	AVR-GSM - BOARD	ATMega32	1776311	52R3434
AVR-MT128	Olimex	ATMEGA128 BOARD	ATMega128-16AI	1701521	25R4413
ATAVRSB200	Olimex	AVR Smart Battery Ref Design	ATmega16HVA, ATmega8HVA	1673237	33P6477

Document List:

Datasheets:

Part Number	Description	Size
ATmega128	8-bit Microcontroller with 16K Bytes	6.06MB
MC78L05A	3-Terminal 0.1A Positive Voltage Regulator	188KB

Application Notes:

File Name	Size
AVR040: EMC Design Considerations	105KB
AVR042: AVR Hardware Design Considerations	196KB
AVR103: Using the EEPROM Programming Modes	76KB

AVR105: Power efficient high endurance parameter storage in Flash memory	145KB
AVR130: Setup and use the AVR Timers	179KB

Hardware & Software:

File Name	Size
AVR/AVR-MT-128-SCH-REV-A.pdf	26KB
avr-jtag.gif	1.4KB
avr-icsp-10.gif	2KB
avr-mt-128-test.zip	4.25KB
avr-mt-128_Display.zip	15.8KB
avr-mt-128_Relay.zip	7.35KB
avr-mt-128_Miscellaneous.zip	15KB