

Bill Of Materials for ECE 411 - ABED - 1.0.r.1
Generated: 11/01 - 1:00
Modified: 11/11 - 11:11

| Cnt | Refs | Manufacturer | P/NP | Mfr. Part Number | Description | Generic | Vendor | Vendor-PN | |
|-----|------|-----------------|---------------------|------------------|----------------------|--|--------|-----------|-------------------|
| | 1 | ATMEGA328P | Microchip | P | ATMega328p | A low power, CMOS 8-bit microcontrollers based on the AVR® enhanced RISC architecture | Y | DigiKey | 490-3261-1-ND |
| | 1 | HC-SR04 | Elec-Freaks | P | HC-SR04 | This economical sensor provides 2cm to 400cm of non-contact measurement functionality with a ranging accuracy that can reach up to 3mm | Y | Sparkfun | SEN-15569 |
| | 1 | HD44780LCD-1602 | SunFounder | P | LCD1602 | 1602 character-type liquid crystal display, is a kind of dot matrix module to show letters, numbers, and characters and so on. | Y | DigiKey | SRU3011-4R7YCT-ND |
| | 4 | 2N7000 | STMicroelectronics | P | 2N700 | MOSFET, 2N7000, N-channel 60 V, 1.8 Ω, 0.35 A | Y | DigiKey | 497-3110-ND |
| | 2 | C1, C2 | TDK | P | CC45SL3FD220IYGNA | Capacitor, 22pF | Y | Newark | 71AH2722 |
| | 3 | TM1, R2, R3 | MULTICOMP PRO | P | MCF 0.25W 10K | Resistor, 10k Ohm | Y | Newark | 38K0328 |
| | 1 | Q1 | Fox | P | FOXSLF/160-20-BAG200 | 16MHz Crystal Clock | Y | Newark | 58T1826 |
| | 2 | R1, R4 | TT ELECTRONICS / WI | P | MFR4-1K0FI | Resistor, 1k Ohm | Y | Newark | 97K4809 |

NOTES

Generic "Y": "Jelly bean" parts. Description represents a minimum specification. Components with "better" specifications (tolerance, temperature range, etc) are OK to substitute.
Generic "N": For special components, manufacturer and part numbers must be matched.
Generic "CUSTOM": Made to order (custom) parts with possibly very long lead times.
Generic "EOL": Part is past end of life, must be purchased on the gray market.