

| Ref Des | Part | Value | Digikey | Digikey price | Alternate | Alt price |
|----------------------------|--------------------------|------------------------|-----------------------------|---------------|--------------------------|-----------|
| AD0 | 3 pin header, breakaway | Board Total: 81 single | A26514-ND (price is for 40) | 1.01 | | |
| AD1 | 3 pin header, breakaway | | A26514-ND | 1.01 | | |
| AD2 | 3 pin header, breakaway | | A26514-ND | 1.01 | | |
| AD3 | 3 pin header, breakaway | | A26514-ND | | | |
| AD4 | 3 pin header, breakaway | | A26514-ND | | | |
| AD5 | 3 pin header, breakaway | | A26514-ND | | | |
| AD6 | 3 pin header, breakaway | | A26514-ND | | | |
| AD7 | 3 pin header, breakaway | | A26514-ND | | | |
| C1,C2,C4,C5,C7,C10,C16,C17 | ceramic cap | .01 uF | 399-2004-nd | 0.2 | EG-9830 (20 for \$1) | 0.05 |
| C3,C6,C11,C18 | Tantalum or electrolytic | 4.7 uF (anything 1- | 399-1389-ND | 0.48 | EG - G13855 (20 FOR \$1) | 0.05 |
| C8,C9 | ceramic cap | 22pF | 399-1890-ND | 0.28 | | |
| C12,13,14,15 | Electrolytic | 1uF | P5174-ND | 0.21 | | |
| CMP0 | 3 pin header, breakaway | | A26514-ND | | | |
| CMP1 | 3 pin header, breakaway | | A26514-ND | | | |
| CR1,CR2 | schotky diode, DO-41 | 1n5819 | 1N5819GITR-ND | 0.11 | | |
| GND1,GND2,GND3 | 2 pin header, breakaway | | A26514-ND | | | |
| ICP | 3 pin header, breakaway | | A26514-ND | | | |
| INT0 | 3 pin header, breakaway | | A26514-ND | | | |
| INT1 | 3 pin header, breakaway | | A26514-ND | | | |
| IRPD | 5 pin header, locking | | A26924-ND | 0.83 | | |
| JMP1 | 3 pin header, breakaway | | A26514-ND | | | |
| JMP2 | 3 pin header, breakaway | | A26514-ND | | | |
| LCD | Dual row header 2x7 | | A26530-ND | 1.87 | | |
| LED0 | Grn LED | | P303-ND | 0.21 | | |
| LED1 | Orange LED | | P307-ND | 0.22 | | |
| LED2 | Yellow LED | | P306-ND | 0.22 | | |
| LED3 | Red LED | | P300-ND | 0.17 | | |
| PGM | 5 pin header, locking | | WM4203-ND | 0.54 | | |
| PTA | 8 pin header, breakaway | | A26514-ND | | | |
| PTC | 8 pin header, breakaway | | A26514-ND | | | |
| PWR_IN | 2 pin header, locking | | WM4200-ND | 0.31 | | |
| PWR_LED | 2 pin header, locking | | WM4200-ND | 0.31 | | |

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| Q1 | 16 MHz crystal | optional, not needed | ctx077-nd (.94) | | | |
| R1,R13 | Resistor | 1K | 1.0KQBK-ND | 0.06 | | |
| R2,R3,R4,R5,R8,R9, R14,R15 | Resistor | 220 | 220kebk-nd | 0.06 | | |
| R6 | Resistor | 430 | 430kebk-nd | 0.06 | | |
| R7 | Pot | TRIM_US-B | 3362H-104-MD | | | |
| R10,R11 | Resistor | 10 | 10KEBK-nd | 0.06 | | |
| R12 | Resistor | 200 | 200kebk-nd | 0.06 | | |
| REGPWR | 2 pin header, locking | | WM4200-ND | 0.31 | | |
| RXM-433 | 4 pin female header | | A26416-ND | 0.72 | | |
| SER | DB9 connector, female | | 309f-nd | 5.48 | | |
| SPWR | 2 pin header, locking | | WM4200-ND | 0.31 | | |
| SRF04 | 5 pin header, locking | | WM4203-ND | 0.54 | | |
| SRVO1 | 3 pin header, breakaway | | A26514-ND | | | |
| SRVO2 | 3 pin header, breakaway | | A26514-ND | | | |
| SRVO3 | 3 pin header, breakaway | | A26514-ND | | | |
| SW1 | Switch, toggle, pcb mount, 3 | TOG_SW1 | CKN1073-ND | 6.63 | EG - G14098 | 0.2 |
| SW2 | Switch, pushbutton, PCB, 4 le | SW_PB2 | 450-1146-ND | 0.37 | | |
| SW3 | DIP switch, 4 position | | A5204-nd | 0.93 | Jameco 38818EA (price based on units of 10) | |
| TXM-433 | 4 pin female header | | A26416-ND | | | |
| TXRX | 3 pin header, locking | | WM4201-ND | 0.39 | | |
| U1 | Atmel microcontroller, 44 pin | ATMEGA853 | ATMEGA8535- | 5.81 | | |
| U2 | Voltage Reg, +5V, TO-220 | 7805 | LM7805CT-ND | 0.57 | | |
| U3 | RS-232 IC, 16 pin DIP | MAX232 | 296-1402-5-ND | 0.63 | | |
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| Sockets: | | | | | | |
| U1-skt | 44 pin PLCC socket | | ED80024-ND | 0.83 | Jameco 71618, 10 for \$9.9 | 0.99 |
| U3-skt | 16 pin DIP socket | | AE8916-ND | 0.19 | All ICS-16 | 0.25 |
| SW3-skt | 8 pin DIP socket | | ED60000-ND | 0.42 | ALL ICS-8 | 0.15 |
| | | | | 33.42 | | |
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| Other items: recommended | | | | | | | |
| LCD | 2 x 16 LCD | | 73-1033-nd | 15.93 | All elec, several part numbers | \$3-7 | |
| | 14 Connector Ribbon cable | | C3AAT-1406M-ND | 2.86 | | | |
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| | | | | | All - All electronics | allelectronics.com | |
| | | | | | EG - Electronic Goldmine | goldmine-elec.com | |
| | | | | | Jameco - Jameco | jameco.com | |