

## Propteus BOM

### Base Configuration

| Qty | Item                                | Digikey#        |
|-----|-------------------------------------|-----------------|
| 1   | PCB                                 | n/a             |
| 1   | DIP-40 socket                       | 3M5471-ND       |
| 1   | DIP-8 socket                        | 3M5473-ND       |
| 3   | 12 pin male headers or 3x12M \$4.10 | SAM1035-07-ND   |
| 1   | 7 pin male prog header              | SAM1035-07-ND   |
| 1   | 4 pin female short header           | SAM1086-02-ND   |
| 2   | 2 pin male header                   | SAM1035-02-ND   |
| 1   | 2 pin shunt                         | WM23944-ND      |
| 1   | SPDT mini slide switch              | CKC5124-ND      |
| 1   | Momentary SPST switch               | P8007S-ND       |
| 1   | LED Red for power indicator         | 754-1201-ND     |
| 4   | LED Green user indicators           | 67-1127-ND      |
| 1   | 5MHz Crystal                        | X410-ND         |
| 1   | AS2810 or LM1117 3.3 Vreg           | LM1117T-3.3-ND  |
| 1   | 1N4007 protection diode             | 1N4007FSCT-ND   |
| 5   | 270R resistors                      | 270EBK-ND       |
| 3   | 10K resistor for reset switch       | CF1/810KJRCT-ND |
| 2   | 33uF electrolytic capacitor         | P10320-ND       |
| 1   | 47uF electrolytic capacitor         | P5137-ND        |
| 4   | 100nF ceramic capacitors            | 490-3873-ND     |

### Option A – Short Headers: Baseboard configuration

| Qty | Item                        | Digikey#      |
|-----|-----------------------------|---------------|
| 1   | 2x20 Female standard header | SAM1086-20-ND |
| 2   | 1x10 Female standard header | SAM1122-10-ND |

### Option B – Stacking Headers: add-on configuration

| Qty | Item                        | Digikey# |
|-----|-----------------------------|----------|
| 1   | 2x20 Female Stacking header | n/a      |
| 2   | 1x10 Female Stacking header | n/a      |

### Option F – Propeller + EEPROM

| Qty | Item                   | Digikey#       |
|-----|------------------------|----------------|
| 1   | DIP-40 Propeller P8X32 | P8X32A-D40-ND  |
| 1   | DIP-8 24L256 EEPROM    | 24LC256-I/P-ND |