

Brillidea
Prop Blade Rev 1 BOM
2008-07-13

Qty	Ref Des	Manufacturer	Mfg Part #	Distributor	Dist. Part #	Description	Package	Type
1	IC1	National	LM1086CS-5.0/NOPB	Digikey	LM1086CS-5.0-ND	Low dropout positive voltage regulator, 1.5A, 5.0V	TO-220, 3-lead	SMD
1	IC2	National	LM1086CS-3.3/NOPB	Digikey	LM1086CS-3.3-ND	Low dropout positive voltage regulator, 1.5A, 3.3V	TO-220, 3-lead	SMD
1	IC3	Parallax	P8X32A-Q44	Digikey	P8X32A-Q44-ND	Propeller Microcontroller, 32 I/O	LQFP (44)	SMD
1	IC4	Atmel	AT24C512BN-SH25-T	Digikey	AT24C512BN-SH25-T	512K 12C serial eeprom, 2.5-5.5v	SOIC (8)	SMD
1	IC5	Maxim	MAX487ECSA+	Digikey	MAX487ECSA+-ND	RS-485/RS-422 transceiver, low power, slew-rate-limited, ESD protected	SOIC (8)	SMD
3	C1, C2, C3	-	-	Digikey	587-1352-1-ND	10uF, ceramic capacitor, 35V	1206	SMD
1	J1	-	-	-	-	2 position, 1 row, 3.96mm spaced, header, right angle (may use 0.1" spaced and bend the legs out, the hol	-	thru-hole
1	PWR-Sw	-	-	-	-	Single pole, single throw, switch, right angle (3 pins for the switch and 2 mounting tabs)	-	thru-hole
2	R1, R5	-	-	-	-	330 Ohm resistor, 1% tolerance, 1/8 watt	1206	SMD
2	LED1, LED2	-	-	-	-	1.9mm, SMD, yellow light emitting diode, gull wing legs	2mm axial	SMD
1	C4, C5	-	-	Digikey	PCC2234CT-ND	1uF, ceramic capacitor, 50V	1206	SMD
7	R2, R3, R9, R10, R11, R12, R13	-	-	Digikey	RHM10.0KFCT-ND	10k Ohm resistor, 1% tolerance, 1/4 watt	1206	SMD
1	XTAL1	-	-	-	-	5.00 MHz, crystal	HC49U/S	thru-hole
1	RESET	-	-	-	-	5.2mm tactile switch, normally open	-	SMD
1	J2	-	-	-	-	2.54mm, 1x04, header, right angle	-	thru-hole
1	R4	-	-	-	-	1k Ohm resistor, 1% tolerance, 1/8 watt	1206	SMD
1	R6	-	-	-	-	120 Ohm resistor, 1% tolerance, 1/2 watt (note the PCB footprint is a little small for this part)	-	thru-hole
2	R7, R8	-	-	-	-	10 Ohm resistor, 1% tolerance, 1/8 watt	1206	SMD
1	JP1	-	-	-	-	2 position, 0.1" spaced, header	-	thru-hole
2	J3, J4	-	-	-	-	2.54mm, 1x05, header, right angle (male and female)	-	thru-hole
1	DIP-SW	-	-	-	-	DIP switch, 10 position, slide type	-	thru-hole
5	SW1, SW2, SW3, SW4, SW5	-	-	-	-	6.0mm tactile switch, normally open, short button height	-	SMS
1	J5, J6	-	-	-	-	2x10, 0.1" spaced, header (only 2x5 needed per channel for use with LED Painter)	-	thru-hole