

								Supp lier Part
Designator	Description	Comment	Value	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	ber 1 3M94
5V, 12V, FANO_1, FAN1_1, PS_ON, PWR	Header, 2-Pin	Header 2		6	3M	961102-6404-AR	Digi-Key	47- ND 3M94 48-
5V_SEL, VFA0_sel, VFA1_sel, VHE2_sel, X+, X-, Y+, Y-, Z+, Z-	Header, 3-Pin	Header 3		10	3M	961103-6404-AR	Digi-Key	ND 565.
C1	Polarized Capacitor (Surface Mount)	CapE-6.3-47uF-50V	47uF 50V	1	United Chemi-Con	EMVE500ADA470MF80G	Digi-Key	2251- 1-ND
C2	Polarized Capacitor (Surface Mount)	CapE-6.3-100uF-16V	100uF 16V	1	United Chemi-Con	EMVE160ADA101MF55G	Digi-Key	565- 2204- 1-ND
C3, C4, C5, C6, C7, C11, C13, C16, C18, C33	Capacitor (Semiconductor SIM Model)	CapC-0603-100nF	100nF	10	Yageo	CC0603KRX7R9BB104	Digi-Key	311- 1344- 1-ND
C8, C14, C15, C19, C20	Capacitor (Semiconductor SIM Model)	CapC-0603-22pF	22pF	5	AVX Corporation	06035C220JAT2A	Digi-Key	478- 6204- 1-ND
C9, C12, C26, C27, C28, C29	Capacitor SMD Cer 1uF 10% 16V X7R 0603	approved sub OK	1μ	6	TDK Corporation	C1608X7R1C105K	Digi-Key	445- 1604- 1-ND
C21, C22, C23, C24, C25, C30, C31, C32	Polarized Capacitor (Surface Mount)	CapE-6.3-100uF-35V	100uF 35V	8		EEE-FT1V101AP	Digi-Key	PCE5 016C T-ND
D1, D6, D7	Default Diode	M4			Fairchild Semiconductor	enc	Digi-Key	S1GF SCT- ND
51, 50, 57	Delian Diode	-			Tuncing Scinconductor	310	Lingt-nay	CD12 06-
D2, D3, D4	Default Diode			3	Bourns Inc.	CD1206-S01575	Digi-Key	S015 75CT- ND
								MBR M140 T3GO
D5	Default Diode	Diode MBRM140	MBRM140	1	ON Semiconductor	MBRM140T3G	Digi-Key	SCT- ND MUR
								\$320- 13FDI CT-
DB	Default Diode	Diode MURS320	MURS320 Vf = 1.15V @ 1.5A	1	Diodes Incorporated	MURS320-13-F	Digi-Key	CT- ND S2BA- FDICT
D9, D10, D11, D12, D13, D14	Diode SMD 100V 1.5A SMA	100V; 1.5A	Vf = 1.15V @ 1.5A (Max)	6	Diodes Inc	\$2BA-13-F	Digi-Key	ND S700
E0, E1, E2, X, Y, Z E0_MOT, E1_MOT, E2_MOT, X_MOT, Y_MOT,		A4988BREAKOUT		6	Sullins Connector Solutions	PPTC081LFBN-RC	Digi-Key	6-ND 277- 5744-
Z_MOT E0_MOT_A, E1_MOT_A, E2_MOT_A, ENC_1, ENC_2, ENC_3, ENC_4, USB_H, X_MOT_A,	Screw Terminal 3.5mm 4-Way	ScrewTerminal-3.5mm-4Way		6	Phoenix Contact	1751264	Digi-Key	ND 3M94
ENC_2, ENC_3, ENC_4, USB_H, X_MOT_A, Y_MOT_A, Z_MOT_A	Header, 4-Pin	Header 4		11	3M	961104-6404-AR	Digi-Key	49- ND 732- 3853-
EO_MS, E1_MS, E2_MS, X_MS, Y_MS, Z_MS	DIP Switch	SW DIP-3		6	Wurth Electronics Inc	4.16131E+11	Digi-Key	1-ND 3M94
EXP1, EXP2	Header, 5-Pin, Dual row	Header 5X2		2	3М	961210-6404-AR	Digi-Key	60- ND 3M15
EXP3	Header, 7-Pin, Dual row	Header 7X2		1	3М	2314-6121-TG	Digi-Key	450- ND
F1, F2		Fuseholder - Mini ATC ATO 15A		2	MPD (Memory Protection Devices)	BK-6013	Digi-Key	BK- 6013- ND
FANO, FAN1, HEO, HE1, HE2	Screw Terminal 3.5mm 2-Way	Screw Terminal 3.5mm 2-Way		5	Phoenix Contact	1751248	Digi-Key	277- 5719- ND
HB-OUT, HB-PWR, MAIN-PWR	Screw Terminal 5mm 2-Way	Screw Terminal 5mm 2-Way			Phoenix Contact		Digi-Key	277- 6405- ND
HB-UUI, HB-FWR, MAIN-FWR		Sciew lettimal Stilli 2-way			Priderita Contact	1735776	ingi-key	ATME GA25
IC1	The high-performance, low- power Atmel 8-bit AVR RISC- based microcontroller	ATMEGA2560		1	Atmel	ATMEGA2560-16AU	Digi-Key	60- 16AU- ND
	High Performance, Low Power USB2.0 AVR® 8-Bit							ATME GA16 U2-
IC2	USB2.0 AVR ® 8-Bit Microcontroller	ATMEGA16U2-AU		1	Atmel	ATMEGA16U2-AU	Digi-Key	U2- AU- ND
IC4		AOZ1282CI		1	Alpha & Omega Semiconductor Inc.	AOZ1282CI	Digi-Key	785- 1613- 1-ND
	3.0 A, Step-Down Switching							296- 3539 9-1-
ics	Regulator	LM2596		1	Texas Instruments	LM2596SX-ADJ/NOPB	Digi-Key	ND 3M94
ISP1, ISP2	Header, 3-Pin, Dual row	Header 3X2		2	3М	961206-6404-AR	Digi-Key	59- ND 151-
J2		USB conector		1	EDAC Inc.	690-005-299-043	Digi-Key	1206- 1-ND 3M94 60-
JTAG, Thermistors	Header, 5-Pin, Dual row	Header 5X2		2	3М	961210-6404-AR	Digi-Key	ND 490-
L1	MagneticCore Inductor with Winding Polarity Marking MagneticCore Inductor with	Ferrite Bead SMD 0805	WE-CBF_0805 (WE- CBF)	1	Murata Electronics North America	BLM21PG221SN1D	Digi-Key	1054- 1-ND
L3	Winding Polarity Marking MagneticCore Inductor with Winding Polarity Marking	Inductor SMD 33uH 1.2A Inductor SMD 47uH 1.8A	33uH 47uH	1	COILCRAFT	MSS6122-123MLB DO3316P-473MLD	Farnell Farnell	****
	Winding Polarity Marking Hyper-Bright Low Current LED			'				475- 1410-
LD2, LD3, LD4, LD5, LD6, LD7, Power	OSRAM Hyper-Bright Low Current LED	GREEN		7	OSRAM Opto Semiconductors Inc.		Digi-Key	1-ND 475- 2560-
LED1, RX, TX	OSRAM	YELLOW		3	OSRAM Opto Semiconductors Inc.	LY R976-PS-36	Digi-Key	1-ND 568- 1015
Q1, Q2, Q3, Q4, Q5, Q6		PSMIN1R8-40YLC		6	NXP Semiconductors	PSMN1R8-40YLC,115	Digi-Key	6-1- ND 311-
								1.00 MHR
R1, R9	Resistor	Res-0603-1M	1M	2	Yageo	RC0603FR-071ML	Digi-Key	DKR- ND 311-
R2, R3, R6, R11, R12, R21, R23, R25, R27, R29, R45	Resistor	Res-0603-10K	10K	11	Yageo	RC0603FR-0710KL	Digi-Key	10.0K HRCT- ND
R4, R13, R14, R15, R16, R17, R18, R33, R36,								311- 1.00K HRCT-
R39, R50, R53, R55, R56	Resistor	Res-0603-1K	1K	14	Yageo	RC0603FR-071KL	Digi-Key	ND 311- 53.6K
R5	Resistor	Res-0603-53.6K	53.6K	1	Yageo	RC0603FR-0753K6L	Digi-Key	HRCT- ND
								311- 22.0H RCT-
R7, R8	Resistor	Res-0603-22R	22R	2	Yageo	RC0603FR-0722RL	Digi-Key	ND 311- 100K
R22, R24, R26, R28, R30, R32, R35, R38, R44, R47, R49, R52	Resistor	Res-0603-100K	100K	12	Yageo	RC0603FR-07100KL	Digi-Key	ND 311.
033 034 037 044 045 555	Desistes	D 0/03 100	100		y	Decrease agree	Diei Kee	10.0H RCT-
R31, R34, R37, R46, R48, R51	Resistor	Res-0603-10R	10R	6	Yageo	RC0603FR-0710RL	Digi-Key	ND 311- 4.7KG
R40, R41, R42, R43, R54	Resistor	Res-0603-4K7	4.7K	5	Yageo	RC0603JR-074K7L	Digi-Key	RCT- ND
R57	Resistor	Res-0603-8K66	8.66K		Yararo	RC0603FR-078K66L	Digi-Key	311- 8.66K HRCT- ND
	numatui		u.ulok	1	Yageo			679- 2396-
Reset		SW-PB		1	Apem Inc.	MJTP1106SATR	Digi-Key	1-ND 535- 9041-
y1, y2 Z1, Z2	Crystal Oscillator VARISTOR_CN0603 (VARISTOR)	16MHz VARISTOR	CG0603MLC-05E	2	Abracon LLC Bourns Inc.	ABL-16.000MHZ-B2 CG0603MLC-05E	Digi-Key Digi-Key	ND CG060