













Comment	Description	Designator	Manufacturer	Manufacturer PN	Quantity	Supplier 1	Supplier Part Number 1
ATXMEGA16A4-AU			ATMEL	ATXMEGA16A4-AU	1	Element 14	1748552
FDD8424H		*1, *2, *3, *4	Fairchild Semiconductor	FDD8424H	4	Digikey	FDD8424HCT-ND
	CAP 10uF 10% 10V			GRM219R61A106K			
10uF	X5R 0805 CAP CER .10UF	C1, C16, C21 C2, C3, C4, C5, C8,	Murata	E44D UMK107B7104KA-	3	Digi-Key	490-4735-1-ND
100nF	50V X5R 0603	C9	Taiyo Yuden	T	6	Digi-Key	478-6206-1-ND
4u7	CAP CER 4.7UF 10V X5R 0603	C6	Taiyo Yuden LMK107BJ475KA-T		1	Digi-Key	587-1441-1-ND
407	100uF 6.3V 1206	00	EWIKTO/ BO-1/3/04-1	C4200C407M0DAC	'	Digiritey	307-1441-1440
100uF 6V3	multi-layer ceramic capacitor	C14, C15, C19, C20	Kemet	C1206C107M9PAC TU	4	Digi-Key	399-5620-1-ND
1uF	CAP CER 1.0UF 50V X7R 0603 CAP CER 10000PF	C17, C22	Taiyo Yuden	UMK107C5105KA- T	2	Digi-Key	445-5090-2-ND
10nF	100V X7R 0603	C18, C23	Taiyo Yuden	HMK107B/103KA- T	2	Digi-Key	587-1446-2-ND
5A/ 40V	DIODE SCHOTTKY 5A 40V SMC	D1, D2, D3, D4, D5, D6, D7, D8	Vishay	SSC54-E3/ 57T	8	Digi-Key	SSC54- E3/57TGICT-ND
	Schottky Diode -		Discrete Semiconductor				
2A/40V	2A/30V	D9, D10, D13	Products	SS23		Digi-Key	SS23-TPMSCT-ND
LED Green	Green LED 0805	D11	Vishay		1	Digi-Key	160-1179-2-ND
LED Red	Red LED 0805	D12, D14, D15	Vishay	TLMS2100-GS08	3	Digi-Key	350-2038-1-ND
Comms Twin Motor	Header, IDC 10-Pin 5.08mm Pluggable	H1			1		1
Connector	Terminal Header	H2			1		
Twin Battery	5.08mm Pluggable						
Connector	Terminal Header	H3			1		
TSOP1236 IN FERRITE CHIP		IR Module	VISHAY	TSOP1236	1	Element14	4913048
120 OHM 800mA 0805	FERRITE CHIP 120 OHM 800mA 0805	L1	TDK	MMZ2012Y121B	1	Digi-Key	445-2196-2-ND
0000	INDUCTOR POWER SHIELD		TDIC	WWWZZOTZTTZTD		Digiritey	443-2130-24ND
Inductor	33UH 2.6A SMD INDUCTOR	L2, L3	Coiltronics	DR124-330-R	2	Digi-Key	513-1435-1-ND
10uH	POWER 10UH 2.0A SMD	L4. L7	Wurth Electronics	744777910	2	Digi-Key	732-1191-1-ND
Header 3	Header, 3-Pin	P1			1		
Header 11	Header, 11-Pin	P4, P5, P6, P7			4		
	Header, 3-Pin, Dual	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Header 3X2	row	P11			1		
Header 2	Header, 2-Pin	P12			1		
ZXM61N02F	20V N-channel enhancement mode MOSFET	Q1, Q3, Q4, Q5, Q6	7etey		5	Element 14	9525270
	20V P-channel enhancement mode	21, 22, 21, 21, 22					
ZXM61P02F	MOSFET	Q2	Zetex		1	Element 14	9525297
10k	RES 10.0K OHM 1/10W 1%0603 SMD	R1, R2, R3, R6, R10, R11, R12, R13, R14, R15, R16, R26, R27, R28, R29, R30, R33, R36, R37, R40, R41	Yaqeo	RC0603FR-0710KL	21	Digi-Key	311-10.0KHRTR- ND
4R7	RES 4.7R 1/10W 5% 0603 SMD	R5	Yageo	RC0603JR-074R7L	1	Digi-Key	311-4.7GRTR-ND
	RES 330 OHM 1/10W 1% 0603			RC0603FR-	<u> </u>	-9,	
330R	SMD RES 100 OHM	R7	Yageo	07330RL	1	Digi-Key	311-330HRTR-ND
100R	1/10W 1%0603 SMD RES 2.2K OHM	R8, R32, R34, R35, R38, R39	ROHM	MCR03EZPFX1000	6	Digi-Key	RHM100HTR-ND
2k2	1/10W 5%0603 SMD	R9	Yageo	RC0603JR-072K2L	1	Digi-Key	311-2.2KGRTR-ND
180R	RES 1800HM 1/10W 1%0603 SMD	R17, R19, R20, R21, R22, R23, R24, R25	Panasonic - ECG	ERJ-3EKF1800V	8	Digi-Key	P180HTR-ND
	RES 680 OHM 1/10W 1%0603	, , , , , ,		RC0603FR-			. 1001111410
680R	SMD RES 150 OHM	R18	Yageo	07680RL	1	Digi-Key	311-680HRTR-ND
150R	1/10W 1%0603 SMD	R42, R43	ROHM	MCR03EZPFX1500	2	Digi-Key	RHM150HTR-ND
FSM2JSMA	DPST SMD Switch	S1	Tyco Electronics		1	Element 14	3801287
MCP130T-3001/TT	Microcontroller Supervisory Circuit with Open Drain Output, 3-Pin SOT- 23, Industrial Temperature, Tape and Reel	U1			1	Digi-Key	MCP130T- 3001/TTTR-ND
SN74LS47	SN74LS47	U2	Texas Instruments	SN74LS47NSR	1	Digikey	296-13223-1-ND
HDSM-541C	2 character 7 segment display	U3	AVAGO TECHNOLOGIES	HDSM-541C	1	Digikey	516-2248-1-ND
TL2575-33IKTTR	oognioni dispiay	VR_3.3	TEXAS INSTRUMENTS	TL2575-33IKTTR	1	TI Samples	TL2575-33IKTTR
TL2575-05IKTTR		VR_5	TEXAS INSTRUME	TL2575-05IKTTR	4	TI Samples	TL2575-05IKTTR
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