

		<b>Orone-mini-S8A/S6A Parts</b>					Partlist exported at 14/04/2013 09:03
Qty	Parts	Value/Part #	RS	Farnell	Future	Device	Comment
1	L1	2512066017Y1 FAIR- RITE	466-9603	1612060		INDUCTOR 1206	Reduce electrical noise into analogue ground, av- 0.08R 1A, 600R@100MHz
1	R1	1k	740-9117 (5%)	2073877		RESISTOR120 6	Power-On LED current limiting resistor
3	R2, R3, R4	1k	740-9117 (5%)	2073877		RESISTOR 1206	LED current limit & switch pull-up/down, 10% okay
2	R5, R6	10k	740-9081 (1%)	2073878		RESISTOR 1206	switch pull-up/down, 10% tolerance is okay
1	R7	1.5k	223-2287 (1%) or 740-9123 (5%)	2073891		RESISTOR 1206	USB pull-up resistor
1	C1	100uF/16V	496-3646 or 684-3926	1754094 or 1658709		CAP_POL7343	Main power smoothing capacitor must be able to withstand the external power Vin voltage
1	C2	10uF	723-6565 or 758-8093 etc.	2113071 or 1828831		CAP 1206	Multi-layer Ceramic X7R, 6.3V or higher
1	C3	10nF	669-8410 or 264-4141 etc	1759350 or 1414713		CAP 1206	Multi-layer Ceramic X7R, 6.3V or higher
4	C4, C5, C6, C7	1uF	648-0733 or 669-8448 etc.	1759436 or 9227865		CAP 1206	Multi-layer Ceramic X7R, 6.3V or higher
2	C8, C9	18pF	698-2841	1650895 or 2218878		CAP 1206	Hard to get in 1206, RS 698-2841 us 15pF
1	XTAL1	5RCA08000123TF80Q3	728-8272			CRYSTAL 5X3.2	8MHz 5x3.2mm 4-pad SMD Crystal
2	BUT, RESET	FSM6JH				TAC_SWITCH PTH 6mm	
1	LED1	L-2060GD	228-5427	1142454 or 1045497		LED1.8MM-W	1.8MM (T-3/4) Green User LED - e.g. Kingbright, Vishay or generic
1	LED2	L-2060ID or MCL914SRD	228-5411	1142456 or 1045495		LED1.8MM-W	LED 1.8MM (T-3/4) Red Power-On LED - e.g. Kingbright, Vishay or generic
2	D1, D2	PMEG3010ER or PMEG3010EH	485-606	1907686		DIODE- SCHOTTKY SOD-123W	1A 30V or higher Schottky Diode
1	T1	PDTA114ET or MMUN2111LT1G	484-3441	1907673 or 9556702		ES_PNP- DRIVER SOT23-3	PNP 'Digital Transistor' includes
1	REG1	MIC5209-3.3YS	727-2586	2100322 or 1556725		V_REG_LM293 7 SOT223	
1	REG2	MCP1703T-3302E/CB	669-4907	1439518		MCP170X SOT23	
1	ESD1	NUF2042XV6			NUF2042XV 6T1G	NUF2042XV6 SOT563	NUF2042XV6T ESD protection and USB filter
1	IC1	STM32F103CB	402-273	2215215		STM32F103CB	LQFP48 STM32F103 or STM32F303
1	FUSE1	1206L050YR (Littelfuse) or nanoSMDC050F/13.2 (TE)	138-679	1596993 or 1345942		PTCSMD	500mA Polyfuse
2	J1, J2	e.g. AW 110/20-T (Assman)	674-2343			M20	2 x 20pin 0.1" Headers. Almost any 0.1" pitch header pins could be used, could also use 0.1" pitch sockets.
1	USB1	USB-Mini-B/AB thru- hole. 56579-0519 or 54819-0519 Molex	515-2011 or 515-2005	1125347 or 2133828 or 9786465		USB-MINIB TH-ODRILL	Thru-hole USB Mini B & AB same footprint
1	J3	Molex KK 22-23-2021 or 22-11-2022 or 22-27-2021	679-5583 or 679-5515 or 483-8461	1462926 or 1865212 or 9731148		M02POLAR	2-pin, polarised, "External power" socket