

		Document reference: USB Li-Ion Battery Charger and Gas-Gauge Application using STw4102			PCB reference: STEVAL-ISB008V1		Date:	9-Dec-08	
		Company: STMicroelectronics							
Category	S. No.	Reference Designator	Component Description	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number or Equivalent	Supplier	Supplier Ordering Code	Quantity
ST Devices	1	U1	Voltage Regulator IC LD2985BM30R	SOT23-5L	ST	LD2985BM30R			1
	2	U2	ESD Protection Device USBLC6-2P6	SOT23-6L	ST	USBLC6-2P6			1
	3	U3	Dual USB/wall adapter Li-ion battery charger with gas gauge STw4102	QFN24	ST	STW4102IQT			1
	4	U4	Microcontroller STM32 Family, ARM-based 32-bit MCU	LQFP48	ST	STM32F103C6T6A			1
	5	U7	P-Channel, Power MOSFET STT5PF20V	SOT23-6L	ST	STT5PF20V			1
	6	D1,D3	Low drop Power Schottky Rectifier STPS1L30U	SMA	ST	STPS1L30U			2
Crystal and Oscillator	7	Y1	Quartz Crystal 8MHz	11.35mmx4.35mm, SS4	Jauch	Q 8.0-SS4-30-30/30			1
Connectors and jumpers	8	J1	JTAG Connector	Box Header, Straight 20way, 2x10pin, 2.54mmx2.54mm Pitch	MULTICOMP	MC9A12-2034	Farnell	Part# 1099258	1
	9	J2	Mini USB Connector	SMD USB Mini-B type connector	Kycon	KMBX-SMT-5S-S-30TR			1
	10	J3,J4,J7	3 pin Jumper	Jumper 3 pin, 1x3way, 2.54mm pitch	Samtec	TSW-103-23-G-S			3

	10	J5	Terminal block	2 pin terminal block, Screw Termination 5.08mm pitch	PHOENIX CONTACT	Part# 1711725	Farnell	Part# 3041165	1
	11	J6	Rechargeable Battery Connector	Header 4 pin, 1x4way, Right Angle, 2.54mm pitch	Any				1
	12	J8	POWER JACK 2.5MM	SOCKET, DC POWER, 2.5MM	CLIFF Electronic Components	DC10B	Farnell	Part# 224960	1
<b>LEDs</b>	14	D4,D5,D6,D7, D8	SMD1206	OSRAM	LGN971	Farnell	Part# 1226371		5
	15	D2	Dual Colour LED, Common Anode	Through hole	Any				1
<b>Capacitors</b>	16	C6,C7	15pF	SMD0805	Any				2
	17	C9,C12	20pF	SMD0805	Any				2
	18	C3,C8	4.7nF	SMD0805	Any				2
	19	C1	10nF	SMD0805	Any				1
	20	C4,C5,C10,C11, C14, C15,C16,C17,C 18,C19,C20,C2 3	100nF	SMD0805	Any				12
	21	C2	4.7uF/10V Tantalum/Electrolytic	EIA 3216-18/ Size A	Any				1
	22	C13	18uF	EIA 3528-21/ Size B	Any				1
<b>Resistors</b>	23	R1,R2,R3,R4,R 6,R9,R13,R14, R15,R16,R17,R 20,R22,R34,R3 6,R37,R38	10k	SMD0805	Any				17
	24	R5,R7	0	SMD0805	Any				2
	25	R8,R10	22	SMD0805	Any				2
	26	R11,R18	1k	SMD0805	Any				2
	27	R12	1.5k	SMD0805	Any				1

			RESISTOR, METAL STRIP, 0.03 OHM 1% 0.125W			WSL-0805 .03 1% EB E3	Farnell	Part# 1107335	1
	28	R19		SMD0805					
	29	R21	15k	SMD0805	Any				1
	30	R23,R24	4.7k	SMD0805	Any				2
	31	R25,R29,R30,R31,R32,R33	470	SMD0805	Any				6
	32	R28	500	SMD0805	Any				1
	33	PTC	500mA rating	SMD0805	Any				1
Misc	34	SW1	Push Button Switch	(6mm X 6mm ) push button, Through Hole	TYCO ELECTRONICS	FSM2JH	Farnell	Part# 1555981	1
Notes :			1. PTC not mounted on board, replaced by a short.						
			2. The term 'equivalent' has been used where the exact part number from the mentioned vendor may not have been used.						
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