

Document reference: STC3100- Battery Monitoring System Demo Board			PCB reference: STEVAL- ISB0011V1			Date:	30th-Nov-2009		
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	STM32 Low-density USB access line, 48pin, 32K Flash, 6K RAM	LQFP48	ST	STM32F102C6T6A			1
	2	U2	Reset Circuit/ voltage supervisor	SOT23-3	ST	STM810SWX6F			1
	3	U3	Very Low Capacitance ESD protection	SOT23-6L	ST	USBLC6-2P6			1
	4	U4	Battery monitor IC with Coulomb counter/gas gauge	DFN8 3x3	ST	STC3100IQT			1
	5	U5	Step Up converter	TSSOP8	ST	L6920D			1
	6	U6	800mA Standalone linear Li-Ion Battery charger with thermal regulation	TSOT23-5L	ST	STC4054GR			1
	7	U7	Low drop fixed and adjustable positive voltage regulators	SOT-223	ST	LD1117AS33TR			1
	8	D1	Small signal Schottky diodes	SMB	ST	BAT54JFILM			1
	9	D5,D6	STPS1L30U(LOW DROP POWER SCHOTTKY RECTIFIER)	SMB	ST	STPS1L30U			2
	10	Q1, Q2	P-CHANNEL Power Mosfet	SOT23-6L	ST	STT5PF20V			2
Crystal and Oscillator	1	Y1	Quartz Crystal 8MHz	11.35mmx4.35mm, SS4	Jauch	Q 8.0-SS4-30-30/30			1
	2	Y2	Oscillator 32KHz	SMD	Any				1
Connectors and jumpers	1	J1	JTAG Connector	Box Header, Right Angle, 20way, 2x10pin, 2.54mmx2.54mm Pitch	Protectron	P9604-20-15-1			1
	2	J6	POWER JACK 2.5MM	SOCKET, DC POWER, 2.5MM, Right Angle, Locking Type	Protectron	PDCJ01-08	Protectron	PDCJ01-08	1
	3	J3,J4,J7,J8,J10,J11	CON3	1x3 Header, 2.54mm Pitch	Any				6

	4	J9	CON5	1x5 Header 2.54mmx2.54mm Pitch					1
	5	J12,J13,J14	TERMINAL BLOCK, SIDE ENTRY, 2WAY Pitch:5.08mm; Mounting Type:PC Board;	2 pin terminal block, 5.08mm pitch, Orange Colour	WEIDMULLER	WEIDMULLER PM5.08/2/90	Farnell	Part# 1131853	3
	6	J2	LCD_CONNECTOR 14022	1x16 Header , 2.54mm Pitch	Any				1
Capacitors	1	C14, C16	15pF	SMD0805	Any				2
	2	C1,C3	20pF	SMD0805	Any				2
	3	C13,C15	4.7nF	SMD0805	Any				2
	4	C2,C4,C5,C6,C7,C8,C9,C10,C11,C17,C21,C22,C24	100nF	SMD0805	Any				13
	5	C19	1uF	SMD0805	Any				1
	6	C12	4.7uF/10V	EIA 3216-18/ Size A	Any				1
	7	C18,C20	47uF	EIA 3216-18/ Size B	Any				2
	8	C23	100uF/16V	Through hole	Panasonic-ECG	ECE-A1CKA101	Digikey	P833-ND	1
LEDs	1	D2,D3	LED	SMD0805	Any				2
Inductors	1	L1	10uH	SMD	Coiltronics/Div of Cooper/Bussmann	SD53-100-R	Digikey	513-1457-1-ND	1
Resistors	1	R1,R10,R12,R44(DNM), R47(DNM), R48	0	SMD0805	Any				6
	2	R22, R23, R46	330	SMD0805	Any				3
	3	R24	3.3k	SMD0805	Any				1
	4	R2,R3,R4,R5,R6,R7,R8,R9,R13,R14,R15,R16,R18,R19,R20,R21,R42, R45, R50	10k	SMD0805	Any				19
	5	R25,R26	22	SMD0805	Any				2
	6	R27,R29,R30,R32,R33	1k	SMD0805	Any				5
	7	R11,R17,R28,	1M	SMD0805	Any				4
	8	R31,R41	1.5k	SMD0805	Any				2
	9	R53	2k	SMD0805	Any				1
	10	R34	100	SMD0805	Any				1
	11	R35,R49	200k	SMD0805	Any				1
	12	R36	150	SMD0805	Any				1

	13	R37	2.2k	SMD0805	Any				1
	14	R38,R39	4.7k	SMD0805	Any				2
	15	R40	RESISTOR, METAL STRIP, 0.03 OHM 1% 0.125W	SMD0805	Any	WSL-0805 .03 1% EB E3	Farnell	Part# 1107335	1
	16	R43	2.8k (1%)	SMD0805	Any				1
	17	R52	800k	SMD0805	Any				1
Switches	1	SW1,SW2,SW3,SW4,SW5	Push Button Switch, SMD	Tactile Switch, SPNO, SMD. 6mmx3.5mm	MULTICOMP	DTSM-32S-B	Farnell	Part# 9471898	5
	2	SW6	2x3Pin header	2x3 Header, 2.54mmx2.54mm Pitch					1
	3	SW7,SW8	Slide switch, SPDT, Horizontal	Through Hole, 2.54mm Pitch	EAO	01-10290-01	Farnell	674357	1
Others	1	D4	5.6Volt Zener Diode	SMD	Any				1
			Oriole LCD, 16 x 2 Alpha numeric LCD	Modular	Oriole				1
		Notes :							
		1. Do not mount R49, R44 and R47 resistors.							
		2. Y2, D4 Not mounted.							
		3. The term equivalent has been used where the exact part number from the mentioned vendor may not have been used.							
End of File									