

Document reference: Graphic Panel with ZigBee features based on			PCB reference: STEVAL-CCM003V1				Date:	30th-Nov-2009	
Company: STMicroelectronics									
Category	S. No.	Reference Designator	Component Description	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Supplier	Supplier Ordering Code	Quantity
ST Devices	1	U1	ZigBee Module	12-Pin SMD	ST	SPZB260			1
	2	U2	Temperature Sensor	SO-8	ST	STLM75M2E			1
	3	U3	Dual USB/wall adapter Li-ion battery charger with gas gauge STw4102	QFN24	ST	STW4102IQT			1
	4	U4	Low drop 3.3V positive voltage regulators	SO-8	ST	LD1117D33TR			1
	5	U5	Step Up converter	TSSOP8	ST	L6920D			1
	6	U6	USBLC6_2P6 Very Low Capacitance ESD protection for USB	SOT23-6L	ST	USBLC6-2P6			1
	7	U7	3-axis MEMS	LGA16 (3x3x1)	ST	LIS331DLH			1
	8	U8	Microcontroller, ARM 32-bit Cortex™-M3 CPU, 512K flash, 64K RAM	100 pin LQPF	ST	STM32F103VET6			1
	9	U9 (Not Mounted)	Reset Supervisor	SOT23	ST	STM1001SWX6F			1
	10	U10 (Not Mounted)	Footprint for Other Modules						
	11	U11	S-Touch,	QFN40	ST	STMPE1208SQTR			1
	12	U12	ESD Protection for uSD card	Micro QFN 16L	ST	EMIF06-MSD02N16			1
	13	Q1	Power MOSFET	SOT23-6L	ST	STT5PF20V			1
	14	D3, D4	Power Schottky Rectifier	SMD	ST	STPS1L30U			2
Crystal and Oscillator	1	Y1	Tuning Fork Crystal 32kHz	2.0mmx6.0mm	Jauch	Q 0,032768-MMTF32-12,5-20			1
	2	Y2	Quartz Crystal 8MHz	11.35mmx4.35mm, SS4	Jauch	Q 8.0-SS4-22-30/30			1
Connectors jumpers & Switches	1	SW1	Power switch : Slide Switch : SPDT-CO, Right Angle	3 Pin, 2.54mm pitch Through Hole	EAO	09-10290-01	Farnell	674357	1
	2	SW2	Reset Switch, Push Button Switch	(6mm X 6mm ) push button, Through Hole	TYCO ELECTRON ICS	FSM2JH	Farnell	Part# 1555981	1

	3	J1(Not Mounted)	Connector 10pin for Zigbee upgrade	SMT	Samtec	FTSH-105-01-F-DV-K			0
	4	J2	JTAG Connector	Box Header, Straight 20way, 2x10pin, 2.54mmx2.54mm Pitch, Through Hole	Protectron	P9603-20-15-1			1
	5	J3	uSD Connector	SMD	Proconn Technology	MSPN09-D0-1002			1
	6	J4	LCD-TFT connector	Socket, 2x15pin, 2.54mmx2.54mm Pitch, Through Hole	Any				1
	7	J5,J8,J13	3 pin jumpers/connectors	3 Pin Header,2.5mm Pitch, Through Hole	Any				3
	8	J6	USB MINI-B connector	SMD	Samtec	MUSB-05-S-B-SM-A			1
	9	J7 (Not Mounted)	CON10	10 Pin Header,2.5mm Pitch, Through Hole	Any				0
	10	J9,J10	CON8A	Header, 2x4pin, 2.54mmx2.54mm Pitch, Through Hole	Any				2
	11	J11,J12	Touch Keys PCB connector	Socket, 2x4pin, 2.54mmx2.54mm Pitch, Through Hole	Any				2
	12	BT1	Battery CR2032 holder	Through Hole	Renata	HU2032-LF	Mouser	614-HU2032-LF	1
	13	BT2	Li-Ion 2 pin Battery conn	2 Pin Header,2.5mm Pitch, Through Hole	Any				
<b>LEDs</b>	1	D1	LED for ZigBee	SMD	Any				1
	2	D2,D5	LED for test purpose	SMD	Any				2
<b>Capacitors</b>									
	1	C44,C47	1pF	SMD0805					12
	2	C38	6pF	SMD0805	Any				1
	3	C24,C25	10pF	SMD0805	Any				2
	4	C19,C20	15pF	SMD0805	Any				2
	5	C26,C27	20pF	SMD0805	Any				2
	6	C21	4.7nF	SMD0805	Any				1
	7	C28,C30,C32	10nF	SMD0805	Any				3
	8	C2,C3,C4,C5,C6,C11,C12,C14,C17,C22,C23,C29,C33,C34,C35,C36,C37	100nF	SMD0805	Any				17
	9	C9,C10, C15	1uF	EIA 3528-21/ Size A	Any				3
	10	C1	4.7uF	EIA 3528-21/ Size A	Any				1

	11	C13,C18,C31,C39	10uF	EIA 3528-21/ Size B	Any				4
	12	C7	22uF	EIA 3528-21/ Size B	Any				1
	13	C8,C16	47uF	EIA 3528-21/ Size B	Any				2
	14	C40,C41,C42,C43,C45,C46,C48,C49,C50,C51	(Not Mounted)	SMD0805					0
<b>Inductors</b>	1	L1,L2	10uH	SMD0805	Any				2
<b>Resistors</b>	1	R1,R2,R3,R4,R13,R15,R17,R18,R20,R28,R31	10k	SMD0805	Any				11
	2	R5,R6,R7,R8,R9	47k	SMD0805	Any				5
	3	R10,R57,R59	100k	SMD0805	Any				3
	4	R11,R12,R19,R25,R26,R34,R36,R41,R42,R43,R52,R53,R54,R55,R58,R62	0	SMD0805	Any				16
	5	R14,R60,R61	470	SMD0805	Any				3
	6	R16	511	SMD0805	Any				1
	7	R21,R22,R23,R32,R33,R64,R65	4k7	SMD0805	Any				5
	8	R24	DNM	SMD0805	Any				1
	9	R27	RESISTOR, METAL STRIP, 0.03 OHM 1% 0.125W	SMD0805	VISHAY DALE	WSL-0805 .03 1% EB E3	Farnell	Part# 1107335	1
	10	R29,R38	2M	SMD0805	Any				2
	11	R30	15k	SMD0805	Any				1
	12	R35	18k(DNM)	SMD0805	Any				1
	13	R37	16k	SMD0805	Any				1
	14	R39	200k	SMD0805	Any				1
	15	R40	22k	SMD0805	Any				1
	16	R44	1k	SMD0805	Any				1
	17	R45,R48,R56,R63	1M	SMD0805	Any				4
	18	R46,R47	33	SMD0805	Any				2
	19	R49	1.5k	SMD0805	Any				1
	20	R50	150k	SMD0805	Any				1
	21	R52	200k	SMD0805	Any				1
<b>Others</b>	1	TFT	TFT: 320 x 240	Module : MB694				MB694	1
	2	Micro SD card	Micro SD card		Any				1
	<b>Notes :</b>								
	<b>1. U9,U10,J1,J7 are Not Mounted</b>								
	<b>2. The term equivalent has been used where the exact part number from the mentioned vendor may not have been used.</b>								
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