

Document reference: STM32 based Camera with Zigbee Connectivity			PCB reference: STEVAL-IFV001V1			Date:	23rd 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 or Equivalent	Quantity	
ST Devices	1	U4	USB protection IC	SOT666	ST	USBLC6-2P6	ST	USBLC6-2P6	1	
	2	U6	Reset Supervisor IC	SOT23-3	ST	STM1001MWX6F	ST	STM1001MWX6F	1	
	3	U5	STM32 Performance Line 64pin, 32K Flash, 20K RAM	LQFP64	ST	STM32F103RET6	ST	STM32F103RET6	1	
	4	U7	3.3V voltage regulator	SOT223	ST	LD1117ADT33TR	ST	LD1117ADT33TR	1	
	5	U8	2.8V regulator	SOT23-5L	ST	LDS3985M28R	ST	LDS3985M28R	1	
	6	U9	DC-DC boost IC	TSSOP8	ST	L6920D	ST	L6920D	1	
	7	U10	Battery Charger IC	QFN6 (3mm x 3mm)	ST	STBC08PMR	ST	STBC08PMR	1	
	8	U3	CAMERA	SmOP2 8.0 x 8.0 x 5.5mm	ST	VS6724Q0FB			1	
	9	U2	SN260 module	Zigbee Module 12-Pin Interface	ST	SPZB260	ST	SPZB260	1	
Resistance	1	R1, R5, R29, R37, R40, R47	0 Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GE0R00X	Digikey	P0.0JCT-ND	6	
	2	R31, R34	33 Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ330X	Digikey	P33JCT-ND	2	
	3	R3, R4, R11	100 Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ101X	Digikey	P100JCT-ND	3	
	4	R13, R28, R30, R32	470 Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ471X	Digikey	P470JCT-ND	4	
	5	R33, R36	1.5K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ152X	Digikey	P1.5KJCT-ND	2	
	6	R6, R7, R9, R10, R12, R46	4.7K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ472X	Digikey	P4.7KJCT-ND	6	
	7	R2, R14, R15, R16, R17, R18, R19, R20, R21, R45	10K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ103X	Digikey	P10KJCT-ND	10	
	8	R50	15K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ153X	Digikey	P15KJCT-ND	1	

	9	R51	20K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ203X	Digikey	P20KJCT-ND	1
	10	R23, R24, R25, R26, R27	47K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ473X	Digikey	P47KJCT-ND	5
	11	R22	100K Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ104X	Digikey	P100KJCT-ND	1
	12	R38	200K Ohm resistance 1/10W	403 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ204X	Digikey	P200KJCT-ND	1
	13	R35,R39	1M Ohm resistance 1/10W	0402 SMD	PANASONIC - ECG (VA) V	ERJ-2GEJ105X	Digikey	P1.0MJCT-ND	2
Capacitors	1	C33, C34	10PF 50V CERAMIC	0402 SMD	PANASONIC - ECG (VA) V	ECJ-0EC1H100D	Digikey	PCC100CQCT-ND	2
	2	C11, C13	15PF 50V CERAMIC	0402 SMD	PANASONIC - ECG (VA) V	ECJ-0EC1H150J	Digikey	PCC150CQCT-ND	2
	3	C14, C15	20PF 50V CERAMIC	0402 SMD	MURATA ELECTRONICS (VA) V	GRM1555C1H200JZ01D	Digikey	490-1282-1-ND	2
	4	C12	4700PF / 4.7nF 25V CERAMIC	0402 SMD	Panasonic - ECG	ECJ-0EB1E472K	Digikey	PCC472BQCT-ND	1
	5	C3, C35	10000PF/ 10nF 16V CERAMIC	0402 SMD	PANASONIC - ECG (VA) V	ECJ-0EB1C103K	Digikey	PCC103BQCT-ND	1
	6	C4, C5, C6, C8, C9, C17, C18, C19, C20, C21, C22, C23, C24, C25, C29, C30, C31, C32, C36	.1UF/ 100nF 10V CERAMIC	0402 SMD	PANASONIC - ECG (VA) V	ECJ-0EB1A104K	Digikey	PCC2146CT-ND	19
	7	C1	1UF 6.3V CERAMIC	0402 SMD	PANASONIC - ECG (VA) V	ECJ-0EB0J105K	Digikey	PCC2393CT-ND	1
	8	C2, C7	Tantalum Capacitors 4.7uF 6.3volts 20% R	0805 SMD	Rohm Semiconductor	TCP0J475M8R	Digikey	511-1443-1-ND	2
	9	C10, C16, C26, C27, C28	Tantalum Capacitors 10uF 6.3volts 20% R	0805 SMD	Rohm Semiconductor	TCP0J106M8R	Digikey	511-1447-1-ND	5
	10	C37, C38	Tantalum Capacitors 47uF 6.3volts 20% R	0805 SMD	Nichicon	F980J476MSA	Digikey	493-2877-1-ND	2
Beads	1	L1, L2, L3	FERRITE BEAD 600 OHM	0402 SMD	TAIYO YUDEN (VA) V	BK1005HS601-T	Digikey	587-1846-1-ND	3
LEDs	1	D1, D2	LED RT ANGLE GREEN CLR	0805 SMD	LITE-ON INC (VA) V	LTST-S220GKT	Digikey	160-1218-1-ND	2

	2	D3	LED RT ANGLE RED CLR	0805 SMD	LITE-ON INC (VA) V	LTST-S220EKT	Digikey	160-1220-1-ND	1
Crystals & Oscillators	1	U1	OSC 12.00 MHZ 3.0V	SMD	ECS INC (VA) V	ECS-3963-120-BN-TR	Digikey	XC1031CT-ND	1
	2	Y1	8MHz low profile	HC49US	ECS	ECS-80-18-4X	Digikey	300-8483-ND	1
	3	Y2	32.768Khz Tuning fork	Cylinder		CMR200T32.768KDZF-UT	Digikey	300-8340-1-ND	1
Switches	1	SW1, SW2	SWITCH, MICRO DETECT Right angle	SMD	MCFTE-2C-V	MULTICOMP	Farnell	1316984	2
	2	SW3	Slide switch, SPDT, Horizontal	DIP	EAO	01-10290-01	Farnell	674357	1
Jumpers & Connectors	1	J1	JTAG CONN	Box Header, Right Angle, 20way, 2x10pin, 2.54mmx2.54mm Pitch	Molex	70246-1001	Mouser	538-70246-1001	1
	2	J2	Micro SD push type, gold flash lead free plating	uSD connector	Proconn Technology Co., Ltd	MSPN09-D0-1002	Proconn Technology Co., Ltd	MSPN09-D0-1002	1
	3	J3	JTAG_SUBCONN .050" 50POS PCB GOLD	Through Hole	Sullins Connector Solutions	GRPB501VWVN-RC	Digikey	S9014E-50-ND	1
	4	J5	USB MINI-B TYPE Connector	SMD USB Mini-B type connector	Samtec	MUSB-05-S-B-SM-A			1
	5	J6	2 pin Battery connector	CONN HEADER 2POS, 2.54mm pitch	Samtec	TSW-106-07-T-S	Digikey	SAM1035-06-ND	1
Others	1	U3 (Socket)	CAMERA SOCKET	SMD	SMK Corporation	CLE9124-1501FSZ			1
	Notes :								
	1. J3 is not mounted								
	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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