

Document / Project reference: Front panel with touch interface and STLED316S LED driver		PCB reference: STEVAL-ICB003V1				Date:	07/02/2009		
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	STM8/Microcontroller	LQFP	ST	STM8S207K6T6C	ST	STM8S207K6T6C	1
	2	U2	STMPE1218S/touch key controller	QFN40	ST	STMPE1208SQTR	ST	STMPE1208SQTR	1
	3	U3	HCF4020M013TR/counter	SO-16	ST	HCF4020M013TR	ST	HCF4020M013TR	1
	4	U8	STLED316S/LED driver	SO-20	ST	STLED316SMTR	ST	STLED316SMTR	1
	5	U9	LD1117V50/Regulator	TO-220	ST	LD1117V50	ST	LD1117V50	1
	6	U10	M74HC74RM13TR, Flip Flop	SO-16	ST	M74HC74RM13TR	ST	M74HC74RM13TR	1
	7	D1, D13	STPS1L30A/ Schottky Diode	SMA	ST	STPS1L30A	ST	STPS1L30A	2
	8	D3,D14,D15, D16	BAT54 Signal diode	SOD323	ST	BAT54JFILM	ST	BAT54JFILM	4
	9	Q1,Q2,Q3	2STR1215 small signal BJT	SOT23	ST	2STR1215	ST	2STR1215	3
Connectors and jumpers	10	J1, 6	3 pin WAGO	5mm pitch	Panasonic - ECG	PA001-3 or equivalent	Farnell	1357318	2
	11	J2	4 pin SWIM connector	SMD with mm pitch	ERNI	284697	ERNI	284697	1
	12	J3	6 x 2 pin DIL Berg	2.5mm pitch	Any				1
	13	J4	Power jack	6 mm	Cliff Electronic Components	DC10B or equivalent	Farnell	224960	1
LEDs	14	D2,D4,D5,D6,D7,D8,D9,D10,D11	LED red	LED-3mm	MULTICOP	MCL034PD or equivalent	Farnell	1581112	9
	15	D12	Bicolor Led	5mm	Dialight Corporation	521-9628F or equivalent	Farnell	1461588	1
	16	D17,D18,D19,D20,D47	Red SMD Led for Touch recognition	SMD0805	Panasonic - SSG	LNJ206R5RUX or equivalent	Digikey	P11496TR-ND	5
	17	D22,D23,D24	Green SMD Led for Touch recognition	SMD0805	Panasonic - SSG	LN1371SGTR or equivalent	Digikey	P516TR-ND	3
Capacitors	18	U4,U5,U6,U7	HDSP5501 common anode	0.55 inch, 2.5mm pitch	Avago Technologies	HDSP-5501 or equivalent	Farnell	1003293	4
	19	C9,C10,C11,C21,C22,C23,C24,C25,C26	2pF	SMD0805	Panasonic - ECG	ECJ-2VCIH020C or equivalent	Digikey	PCC020CNR-ND	9
	20	C2,C5,C7,C12,C14,C15,C16,C17,C18	100nF	SMD0805	Panasonic - ECG	ECJ-2VB1E104K or equivalent	Digikey	PCC1828CT-ND	9
	21	C3	470nF	SMD0805	Panasonic - ECG	ECJ-2VF1C474Z or equivalent	Digikey	PCC1847TR-ND	1
Resistors	22	C1,C4,C6,C8,C13,C20,	10uF/10V tantalum	Type 1	Vishay/Sprague	293D106X96R3A2TE3 or equivalent	Mouser	74-293D106X96R3A2TE3	6
	23	C19	100uF/25V	Through Hole	MULTICOP	MCGPR25V107M6.3X11 or equivalent	Farnell	9451188	1
	24	R14	0	SMD0805	Panasonic - ECG	ERJ-6GEY0R00V or equivalent	digikey	P0.0ATR-ND or equivalent	1
	25	R17,R18,R19,R20,R21,R22,R23,R24,R43,R44,R45,R46,R47,R48,R49,R50,R11,R15	220	SMD0805	Panasonic - ECG	ERJ-6GEYJ221V or equivalent	digikey	P220ATR-ND	18
Misc Components	26	R25	360	SMD0805	Panasonic - ECG	ERJ-6GEYJ361V or equivalent	digikey	P360ATR-ND	1
	27	R34,R37,R38,R39	470	SMD0805	Panasonic - ECG	ERJ-6GEYJ471V or equivalent	digikey	P470ATR-ND	4
	28	R5,R9,R10,R13,R28,R29,R30,R31,R33,R34,R35,R37,R38,R39	1K	SMD0805	Panasonic - ECG	ERJ-6GEYJ102V or equivalent	digikey	P1.0KATR-ND	14
	29	R1,R2,R3,R6,R7,R8,R26,R40,R41	4k7	SMD0805	Panasonic - ECG	ERJ-6GEYJ472V or equivalent	digikey	P4.7KATR-ND	9
	30	R4,R12,R16,R32,R36,R42	10K	SMD0805	Panasonic - ECG	ERJ-6GEYJ103V or equivalent	digikey	P10KACT-ND	6
	31	R27	POT - 0 to 1K	Through hole	VISHAY Spectrol	63M-T607-102 or equivalent	Farnell	9608206	1
	32	SW1	Tact Switch	through hole	TYCO ELECTRONICS	FSM6JH	Farnell	1555983	1
	33	J5	Rotary encoder	through hole	ALPS	EC12E2424407	Farnell	1520813	1
	34	RL1	SPDT relay	through hole	Multicomp	HRM-S DC5V	Farnell	9480021	1
	35	BZ1	Buzzer DC	through hole	KINGSTATE	KPEG242	Farnell	1502726	1
36	Bump On	Bumpers SMALL HEMISPHERE WHT	Paste	3M Electronic Specialty	SJ-5003	mouser	517-SJ-5003WH	4	
37	Heat Sink	Heat sink for TO- 220 packaged IC	-	Futurlec	TO220LGBA or equivalent	Futurlec	TO220LGBA or equivalent	1	

Note:	C25 is not to be mounted.
Note:	Mount R33 for Water Sensor Feature.
Note:	J3 is not mounted. So its cost is not included in the BOM.
Notes :	
	The term equivalent has been used where the exact part number from the mentioned vendor may not have been used.
	Transportation charges are not included for the cost estimation.