

Document / Project reference: Front Panel Demo with STLED325		PCB reference: STEVAL-ILL029V1			Date:	15/04/2010			
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	STM8S 8 bit microcontroller	LQFP32	ST	STM8S207K6T6C	ST	STM8S207K6T6C	1
	2	U2	LED controller/driver	QFN32	ST	STLED325QTR	ST	STLED325QTR	1
	3	U3 (Not Mounted)	LDS3985M18TR/Voltage regulator	SOT23-5L	ST	LDS3985M18TR	ST	LDS3985M18TR	0
	4	U4	L4978	DIP8	ST	L4978	ST	L4978	1
	5	U5	LD1117AS33TR	SOT-223	ST	LD1117AS33TR	ST	LD1117AS33TR	1
	6	D1, D5, D6, D7, D8	BAT54J	SOD323	ST	BAT54JFILM	ST	BAT54JFILM	5
	7	D9, D20	Schottky diode	SMA	ST	STPS1L30A	ST	STPS1L30A	2
	8	D10, D11 (Do Not Mount)	Diode	SMA	ST	STTH102	ST	STTH102	0
	9	Q1	PNP transistor	SOT-23	ST	2STR2215	ST	2STR2215	1
	10	Q2	NPN Transistor	SOT-23	ST	2STR1215	ST	2STR1215	1
Other Devices	11	Y1	32.768 KHz crystal	Thru Hole	Vishay/Dale	XT26TTA32K768	Mouser	73-XT26T	1
	12	BZ1	Piezoelectric Buzzer	Thru Hole	CUI	CEP-2242	Digikey	102-1115-ND	1
LEDs	13	D4	Bicolor PWR/STBY LED	PLCC-4	Kingbright	KAA-3528ESGC	Farnell	1318239	1
	14	D2	Interrupt LED (Blue)	PLCC2	OSRAM Opto Semiconductors Inc	LB T673-L2P1-35-0-10-R18-Z	Digikey	475-1387-1-ND	1
	15	D3	Mute LED (Red)	PLCC2	Avago Technologies US	HSMC-A101-S00J1	Digikey	516-2122-2-ND	1
	16	U6, U7, U8, U9	HDSP5501 common anode	0.55 inch, 2.5mm pitch	Avago Technologies US Inc.	HDSP-5501	Digikey	516-1212-5-ND	4
Switches	17	SW2	DIP-8 switch	SMT	C & K	SDA08H0SBD	Mouser	611-SDA08H0SBD	1
	18	SW1, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11	Tactile switches	6.0x6.0x7.0mm 160gf thru hole	ALPS	SKHHBWA010	Mouser	688-SKHHBW	10
Connectors/Jumpers	19	J1, J4, J6, J7 (J6 and J7 not mounted)	Single row Bergstrip	2.54 mm pitch thru hole	Protectron	P9102-40-12-1	Protectron	P9102-40-12-1	1
	20	J3	Dual row bergstrip	2.54 mm pitch thru hole	Protectron	P9103-80-12-1	Protectron	P9103-80-12-1	1
	21	J4 (Do Not Mount)	4- pin female bergstrip header(Do Not Mount)	2.54 mm pitch thru hole	Protectron	P9301-36-11	Protectron	P9301-36-11	1
	22	J5	DC Jack connector	2.5 mm right angle locking type	Protectron	PDCJ01-08	Protectron	PDCJ01-08	1

Inductance	23	L1	100 uH	SMD	Coil-craft	DS5022P-104MLB	Coil-craft	DS5022P-104MLB	1
Resistances	24	R1,R9,R13,R18,R21,R28,R37,R38	4K7	SMD0805	Panasonic - ECG	ERJ-6GEYJ472V or equivalent	Digikey	P4.7KATR-ND	7
	25	R2,R8,R19,R20,R44,R45	10K	SMD0805	Panasonic - ECG	ERJ-6GEYJ103V or equivalent	Digikey	P10KACT-ND	6
	26	R3	360R	SMD0805	Panasonic - ECG	ERJ-6GEYJ361V or equivalent	Digikey	P360ATR-ND	1
	27	R4	10R	SMD0805	Panasonic - ECG	ERJ-6GEYJ100V or equivalent	Digikey	P10ATR-ND	1
	28	R16	3K3	SMD0805	Panasonic - ECG	ERJ-6GEYJ472V or equivalent	Digikey	P3.3KATR-ND	1
	29	R6,R11,R39,R40,R41,R42	1K	SMD0805	Panasonic - ECG	ERJ-6GEYJ102V or equivalent	Digikey	P1.0KATR-ND	6
	30	R7,R10,R12,R14,R17,R24,R29,R30,R31,R32,R33,R34,R35,R36 (Do not mount : R10, R14, R17)	0R	SMD0805	Panasonic - ECG	ERJ-6GEY0R00V or equivalent	Digikey	P0.0ATR-ND or equivalent	14
	31	R15	220R	SMD0805	Panasonic - ECG	ERJ-6GEYJ221V or equivalent	Digikey	P220ATR-ND	2
	32	R22, R23	100R	SMD0805	Panasonic - ECG	ERJ-6GEYJ101V	Digikey	P100ATR-ND	2
	33	R25	20K	SMD0805	Panasonic - ECG	ERJ-6GEYJ203V or equivalent	Digikey	P20KATR-ND	1
	34	R26	2K7	SMD0805	Panasonic - ECG	ERJ-6GEYJ272V or equivalent	Digikey	P2.7KATR-ND	1
	35	R27	9K1	SMD0805	Panasonic - ECG	ERJ-6ENF9101V or equivalent	Digikey	P9.10KCCT-ND	1
	36	R43	47R	SMD0805	Panasonic - ECG	ERJ-P06J470V or equivalent	Digikey	P47ADCT-ND	1
Capacitors	37	C1,C3,C8,C11,C12,C13,C15,C23,C24,C25,C26	100nF	SMD0805	Panasonic - ECG or equivalent	ECJ-2VB1E104K or equivalent	Digikey	PCC1828CT-ND	11
	38	C2	1uF	SMD1206	Panasonic - ECG	ECJ-3YB1C105K or equivalent	Digikey	PCC1882CT-ND	1
	39	C4,C5	25pF	SMD0805	AVX Corporation	08051A200JAT2A CAP CERM	Digikey	478-3735-1-ND	2
	40	C7	470nF	SMD0805	Murata Electronics North America	GRM21BF51E474Z A01L or equivalent	Digikey	490-1730-1-ND	1
	41	C9,C14,C16,C18,C27	10uF	Case A	Vishay/Sprague or equivalent	293D106X96R3A2T E3 or equivalent	Mouser	74-293D106X96R3A2 TE3	1
	42	C10	47uF	Leaded 50volts 47uF 6.3x11 20% 2.5LS	Nichicon	UPS1H470MED	Mouser	647-UPS1H470MED	1
	43	C17	10nF	SMD0805	Panasonic - ECG	ECJ-2VB1H103K	Digikey	PCC103BNCT-ND	1
	44	C19	220nF	SMD0805	Panasonic - ECG	ECJ-1VB1A224K	Digikey	PCC1749CT-ND	1
	45	C20, C21	220uF/63V	Thru Hole	Panasonic - ECG	EEU-FM1E221	Digikey	P12383-ND	2
	46	C22	2.7nF	SMD0805	Panasonic - ECG	ECJ-2VB1H272K	Digikey	PCC272BNCT-ND	1
	47	C28	22nF	SMD0805	Panasonic - ECG	ECJ-2VB1H223K	Digikey	PCC223BGCT-ND	1

	48	C29	100pF	SMD0805	Panasonic - ECG	ECJ-2VC1H101J	Digikey	PCC101CGCT-ND	1
Miscellaneous	49	C6	0.22 F Supercap		Cornell Dubilier	EDLSD224H5R5C	Mouser	598-EDLSD224H5R5C	1
	50	R5	Potentiometer (0 - 1K)	Thru Hole	VISHAY Spectrol	63M-T607-102 or equivalent	Farnell	9608206	1
	51	IR Sensor	IR Sensor (38 KHz)	Thru Hole	Vishay Semiconductors	TSOP31238	Farnell	1469635	1
Mounting Screws and Nuts	52	Mounting Screws	Slotted Pan Head Screw 4-40 Thread 1" Long		AEL Hardware		AEL Hardware		4
	53	Mounting Nuts	440 Hex Nut Natural Nylon(UL94V-2) Natural Nylon (UL94V-2)		AEL Hardware		AEL Hardware		8