

	Document / Project reference: Advanced resistive touch screen controller demo board based on STMPE811 (STEVAL-ICB004V1)		PCB reference: STEVAL-ICB004V1			Date:	November 3, 2009		
	Company:	STMicroelectronics							
Category	S. No.	Reference Designator	Component Description	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Supplier	Supplier Ordering Code or Equivalent	Quantity
ST Devices	1	U1	4 wire Resistive touch screen controller	QFN16	ST	STMPE811QTR			1
	2	U2	STM32 Performance Line 36pin, 64K Flash, 20K RAM	VFQFPN36	ST	STM32F103T8U6			1
	3	U3	Low drop fixed positive voltage ,3.3V regulators	SO-8	ST	LD1117D33TR			0, DNM
	4	U4	Ultra Low Drop output linear regulator, 3V ,output current up to 3A	VFQFPN20	ST	L6935			1
	5	U5	Reset Circuit, Open Drain Output, Reset Threshold 2.93V (VRST = 2.85V to 3.00V)	SOT23-3 (WX)	ST	STM1001SWX6F			1
	6	U6	ESD protection for high speed interface, USB ESD protection	SOT-666	ST	ESDAULC6-3BP6			1
Crystal and Oscillator	1	Y1	Quartz Crystal 8MHz	SMD	ECS Inc	ECS-80-S-5PX-TR	DIGIKEY	XC1243CT-ND	1
Connectors and jumpers									
	1	J2	Box Header, Surface Mount, 20way, 2x10pin, 2.54mmx2.54mm Pitch	SMD	Samtec	HTST-110-01-L-DV			1
	2	J3,J4	Box Header, Surface Mount, 10way, 2x5pin, 2.54mmx2.54mm Pitch	SMD	Samtec	HTST-105-01-L-DV			2
	3	J5	USB Mini-B type Connector	SMD	Samtec	MUSB-05-S-B-SM-A			1
	4	J6,J7,J8,J9,J10,J11,J12	Pin Header, Surface Mount, 3 pin, 2.54mm Pitch	SMD	Protectron	P9107-40-03-1			5
LEDs	1	D1,D2,D3	LED	SMD0805		Any			3
Capacitors	1	C1,C2,C3,C4	2pF	Ceramic SMD		Any			4

	2	C5,C7	20pF	Ceramic SMD		Any			2	
	3	C6,C8,C11,C12,C13,C14,C15,C16,C17,C19,C21,C22,C24,C26,C27,C28,C32	100nF	Ceramic SMD		Any			17	
	4	C33	1uF/25V Tantulum SMD	EIA 3216-18/Size A		Any			1	
	5	C9,C10,C18,C23	10uF/25V Tantulum SMD	EIA 3216-18/Size A		Any			4	
	6	C20	22uF/25V Tantulum SMD	EIA 3216-18/Size A		Any			1	
	7	C25	4.7uF /25V Tantulum SMD	EIA 3216-18/Size A		Any			1	
	8	C29,C31	15pF	Ceramic SMD		Any			2	
	9	C30	4.7nF	Ceramic SMD		Any			1	
Resistors	1	R1	15k	SMD		Any			1	
	2	R2,R27,R31	470	SMD		Any			3	
	3	R3,R5	4.7k	SMD		Any			2	
	4	R4,R11,R16,R19,R23,R24	0	SMD		Any			6	
	5	R6,R7,R9,R10,R12,R13,R14,R15,R17,R18,R21,R25,R26,R28,R29	10k	SMD		Any			15	
	6	R8,R34	1M	SMD		Any			2	
	7	R20	500	SMD		Any			1	
	8	R22	50k	SMD		Any			1	
	9	R30	1.5k	SMD		Any			1	
	10	R32,R33	33	SMD		Any			2	
Inductors	1	L1	10uH	SMD		Any			1	
Misc Components	1	SW1,SW2	Push Button Switch, SMD	Tactile Switch, SPNO, SMD. 6mmx3.5mm	MULTICOMP	DTSM-32S-B	FARNELL	Part# 9471898	2	
	3	Touch Screen	4 wire Resistive Touch Screen	ITO Glass Sheet 1.1 FPC/ZIF	Apex Material Technology corp.	AMT 9505	Electrotest PTE LTD.	AMT 9505	1	
	4	USB mini B cable	USB Cable : USB-A to Mini-B connector	Length = 915mm	SPC TECHNOLOGY	SPC20060	FARNELL	Part# 1651027	1	
	5	Command Strips	Adhesive Touch screen Mounting Strips	Length = 190mm	3M	Command (TM)Strips	Electrotest PTE LTD.	Command Strips	2	
	6	Touch screen Stylus	Resistive Touch Screen Stylus	Stylus Pen			Electrotest PTE LTD.	PenMount Stylus Pen	1	
	7	IDC cable	Cable for IDC 5*10 connectors(IDC Conenctor: Box Header, 10way, 2x5pin, 2.54mmx2.54mm Pitch)	Length = 5"	Samtec	HCSD-05-D-05.00-01-N-G			1	
		Notes :	1. The term equivalent has been used where the exact part number from the mentioned vendor may not have been used.							
			2. U3 is not mounted on the Board							