

KSZ8851SNL DEMO BOARD Revision: 1.1

Date:4/21/10

MICREL SEMICONDUCTOR

All Components must be Lead free / RoHS compliant

DNI = DO NOT INSTALL

Bill Of Materials

Item	QTY	Reference	Value / Size	Mfg	Mfg Part #	Digi-key	DNI
1	4	C1,C4,C7,C8	4.7uF / Tan A	Nichicon	F931A475MAA		
2	12	C2,C3,C5,C9,C10,C11,C13 C15,C19,C23,C25,C28	0.1uF / 0603	Panasonic	ECJ-1VB1C104K		
3	2	C6,C12	0.01uF / 0603	Panasonic	ECJ-1VB1H103K		
4	4	C14,C18,C24,C27	10uF / Tan A		F931A106MAA		
5	2	C16,C17	1000pF/2KV / 1808	Panasonic	ECK-A3D102KBP		
6	2	C20,C21	22pF / 0603	Panasonic	ECJ-1VC1H220J		
7	1	C22	47uF / Tan C	Kemet	T491C476K010AT		
8	2	C30,C26	470pF / 0603	Yageo	CC0603KRX7R9BB471		
9	1	C29	22uF / Tan B				
10	1	D1	1N4148 DIP	Micro Commercial Co	1N4148-TP	1N4148-TPMSTR-ND	
11	2	D2,D3 (for reference & not design in)	GBLC03C_0	SOD-323			DNI
12	4	FB1,FB2,FB3,FB4	FERRITE 3A 100 OHM 1206 SMD	Steward	H11206N101R-00		
13	1	JP1	HEADER 5x2 (TH 0.1mm)				
14	5	JP2,JP3,JP4,JP5,JP6	Header & JUMPER SIP/2P				
15	1	J1	RJ45 connetor	AMP	5558342-1	A31466-ND	
16	1	LED1	LEDx2 Green	Dialight	553-0122-300F	350-1699-ND	
17	2	LED2 (green)	LED GRN 0805 SMD	Lumex	SML-LXT0805GW-TR	67-1553-1-ND	
		LED3 (red)	LED RED 0805 SMD	Lumex	SML-LXT0805IW-TR	67-1552-1-ND	
18	2	R1,R24	0 / 0603				
19	4	R2,R6,R13,R15	49.9 / 0603				
20	4	R3,R4,R28,R29	4.7K / 0603				
21	4	R5,R7,R9,R10	75 / 0603				
22	7	R8,R11,R12,R14,R17,R21,R23	33 / 0603				
23	4	R16,R18,R20,R26	220 / 0603				
24	1	R19	10K / 0603				
25	1	R22	3.01K 1% / 0603				
26	2	R30,R25	1.5K 1% / 0603				
27	2	R33,R27	2.49K 1% / 0603				
28	1	R31	2.46K 1% / 0603				
29	1	R32	5.54K 1% / 0603				
30	1	S1	SW PUSHBUTTON	Panasonic	EVQ-PHP03T		
31	4	TP1,TP2,TP3,TP4	TestPoint				
32	1	T1	SINGLE H1102NL (or HX1188NL)	PULSE	H1102NL (or HX1188NL)	553-1323-ND or 553-1340-ND	
33	1	U1	KSZ8851SNL (32-pin 5mmx5mm QFP)		Micrel		
34	1	U2	AT93C46-10SC EEPROM DIP	ATMEL	AT93C46		DNI
35	2	U3,U4	MIC5209YM	SOIC-8	Micrel		
36	1	U5 (for reference & not design in)	SRV05-4	SOT23-6			DNI
37	1	Y1	Crystal 25MHz +/-50ppm (cylindrical)	Epson Electronic	CA-301 25.0000M-C:PBFREE		