KSZ8895MQ/TMQ/RQ Evaluation Board Revision1.0

MICREL SEMICONDUCTOR

All Components must be Lead free / RoHS compliant
DNI = DO NOT INSTALL

11/17/2010

Bill Of Materials

Item	QTY	Reference	Value / Size	Package	Mfg	Mfg Part #	Digi-key	Mark
1	1	CN1	Right Angle, Thru-Hole USB Connector		AMP	292304-1 Series B		
2	29	C1,C3,C12,C13,C17,C18, C19,C20,C23,C24,C25,C26, C27,C29,C30,C31.C34,C36, C37,C38,C39,C42,C43,C45 C47,C48,C50,C52,C54	0.1uF	0603	Panasonic	ECJ-1VB1H104K	PCC2398TR-ND	
3	4	C2,C5,C28,C33	22uF/16V TANT C	Size C	Kemet	T491C226M016AT	399-3747-1-ND	
4	4	C4,C41,C51,C53	0.01uF	0603	Panasonic	ECJ-1VB1H103K	PCC1784CT-ND	
5	2	C6,C7	18PF	0603	AVX	06035A180JAT2A	478-1166-2-ND	
6	6	C8,C9,C10,C11,C14,C15	1000pf/2kv	DIP	Panasonic	ECK-A3D102KBP		
7	5	C16,C21,C44,C46,C49	22uF/16V TANT B	Size C	Kemet	T491C226K016AT	399-3780-2-ND	
8	1	C22	47uF/16V TANT B	Size C	Kemet	T491D476K016AT	399-3794-1-ND	
10	2	C32,C35	100UF/16V	Size C	Kemet	T491C107K016ZT	399-5214-2-ND	
11	1	C40	470UF/16V	RADIAL	Panasonic	ECA-1CM471	Digi-key	
13	1	C55	33nF	0603				
14	2	C56,C57	47pF	0603				
15	1	D1	1N4148		Micro Commercial	1N4148-TP	1N4148-TPMSCT-ND	
16	2	D2,D3	LED	SMD 0805	Medland	L1771GC-TR	SML-LXT0805GW-TR	
18	10	FB1,FB2,FB3,FB4,FB5,FB6 FB7,FB8,FB9,FB10	FBEAD 3A 100 ohm	1206 SMD	Steward	HI1206N101R-00		
19	39	JP1,JP2,JP3,JP4,JP5,JP8,JP9, JP10,JP11,JP12,JP13,JP14, JP15,JP16,JP19,JP20,JP21, JP22,JP23,JP25,JP26, JP28,JP29,JP30,JP31,JP32 JP33,JP34,JP35,JP36,JP37 JP38,JP39,JP40,JP41,JP42,	JUMPER	SIP\2P			2 PIN HEADER 0.1"	

		JP43,JP44,JP45						
21	8	JP6,JP7,JP17,JP18	HEADER 3x1	SIP\3P			3 PIN HEADER 0.1"	
		JP24,JP27,JP46,JP47						
25	5	J1,J2,J3,J4,J5	RJ45		AMP	5558342-1	A31466-ND	
26	2	J6,J8	Male MII connector		TW/Goal Ray	MDC-40MM-3-C2	MDS-40MM-3-C2	
27	1	J7	Female MII connector		Tyco/AMP	5787170-4	A31806-ND	
28	1	J10	POWER JACK		Switchcraft	RAPC712X	SC237-ND	
29	1	J11	HEADER 4	SIP\4P			4 PIN HEADER 0.1"	
30	5	LED1,LED2,LED3,LED4,LED5	LEDx3 3mm-T		Kingbright	WP934SA/3GD	754-1289-ND	
31	1	Q1	MIC94052	SC-70-6	Micrel	MIC94052YC6TR		Micrel
32	5	RN1,RN2,RN3,RN4,RN5	220	8P4R220	Panasonic	EXB-V8V221JV	Y4221TR-ND	
33	17	R1,R2,R3,R4,R5,R6,R9,R10,	4.7K	0603				
		R11,R13,R14,R15,R16,R21,						
		R120,R121,R122						
34	17	R7,R8,R17,R18,R19,R20,	1K	0603				
		R102,R103,R104,R105,R106,						
		R107,R108,R109,R110,R111,						
		R123						
35	1	R12	12.4K 1%	0603				
36	30	R22,R23,R25,R26,R27,R28,	51	0603				
		R29,R30,R32,R33,R34,R35,						
		R36,R38,R39,R40,R41,R42,						
		R44,R45,R46,R47,R48,R49,						
		R50,R51,R53,R54,R55,R56						
37	5	R24,R31,R37,R43,R52	75	0603				
38	32	R57,R58,R59,R60,R61,R62,	22	0603				
		R63,R64,R65,R66,R67,R68,						
		R69,R70,R71,R72,R78,R79,						
		R80,R81,R82,R83,R84,R85,						
		R86,R87,R88,R89,R90,R91,						
		R92,R93						
39	14	R73,R74,R75,R76,R77,R94,	10K	0603				
		R95,R96,R97,R98,R99,R100,						
		R101,R113						
40	1	R112	47K	0603				
41	2	R114,R115	220	0603				
42	1	R116	470R	0603				

43	2	R117,R118	27	0603				
44	1	R119	1.5K	0603				
45	1	S1	SW PUSHBUTTON		Panasonic	EVQ-PHP03T	P8002SCT-ND	
46	24	TP1,TP2,TP3,TP4,TP5,TP6,	TestPoint					
		TP7,TP8,TP9,TP10,TP11,						
		TP12,TP13,TP14,TP15,TP16						
		TP17,TP18,TP21,TP22,TP23,						
		TP24,TP19,TP20						
52	1	T1	QUAD Ports		PULSE	H1664NL	Micrel provide	Micrel
53	1	T2	SINGLE Port		PULSE	H1102NL	553-1323-ND	
54	1	U1	AT24C02 w/Socket	PDIP-8	Atmel	AT24C02A-10PU-2.7	AT24C02A-10PU-2.7-ND	
55	1	U2	KSZ8895MQ KSZ8895TMQ KSZ8895RQ	PQFP-128	Micrel	KSZ8895xx		Micrel
56	1	U3	MIC5258-1.2YM5	SOT-23-5				Micrel
57	1	U4	MIC 39100-3.3WS	SOT-223				Micrel
58	1	U5	USB Controller	LQFP-48	FDTI	FT2232D		
59	1	Y1	25MHZ Crystal 50ppm		Epson	CA-301 25.0000M-C:PBFREE	SER3441-ND	
60	1	Y2	6MHz Crystal 50ppm		Epson	CA-301 6.0000M-C:PBFREE		

Note1: Jumber closed for KSZ8895MQ/TMQ assembly as follows, JP5, JP9,JP17[2-3], JP18[1-2], JP24[2-3], JP27[1-2],JP46[1-2], JP47[1-2].