KSZ8795 Demo Board Revision1.0

MICREL SEMICONDUCTOR **All Components must be Lead free / RoHS compliant**

DNI = DO NOT INSTALL

2013-9-10

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	31	~~C3,C4,C7,C8~~,C10,C11,C13, C14,~~C15,C16,C18,C19,C20,~~ ~~C21,C22,C23~~,C24,~~C25,C26~~, ~~C28,C29,C30,C31,C32,C33~~, C34,C55,C56,C57,C58, C65,C69,C70,C71,C76, C77,C78,C81,C85,C86, C90,C91,C92,C94,C98, C101,C104,C106,C108, C109,C112	0.1uF	0603	Panasonic	ECJ-1VB1H104K	PCC2398TR-ND	
3	20	~~C17,C27~~,C35,C43,C50,C60, C64,C67,C68,C74,C75,C80 C82,C83,C84,C88,C89,C93 C96,C97,C100,C103	4.7uF/6.3V Ceramic	0603				
4	18	C36,C37,C38,C39,C40,C41, C44,C45,C46,C51,C52,C61, C62,C66,C72,C79,C102,C105	0.01uF	0603	Panasonic	ECJ-1VB1H103K	PCC1784CT-ND	
5	4	C1,C2,C48,C49	22pF	0603	AVX	06035A220JAT2A	478-1167-2-ND	
6	3	~~C5,C6~~,C9,C12,C59	1000pf/2kv	DIP	Panasonic	ECK-A3D102KBP		
7	1	C95	100UF/6.3V	Size D	AVX Corp	TAJD107K016RNJ	478-1723-2-ND	
8	2	C42,C73	10uF/6.3V Ceramic	0805				
9	2	C87,C99	470pF	0603				
10	1	C107	33nF	0603				
11	2	C110,C111	47pF	0603				
12	2	D1,D6	1N4148		Micro Commercial	1N4148-TP	1N4148-TPMSCT-ND	
13	4	D2,D4,D5,D7	LED	SMD 0805	Medland	L1771GC-TR	SML-LXT0805GW-TR	

14	1	D3	LED	1210 SMD	Dialight	598-8610-207F	
15	5	FB1,FB2,FB3,FB4,FB5,FB6 FB7,FB8,FB9	FBEAD 3A 100 ohm	1206 SMD	Steward	HI1206N101R-00	
16	1	JP1	Header 5x1	SIP\5P			5 PIN HEADER 0.1"
17	30	JP5,JP6,JP7,JP8,JP9,JP10, JP12,JP13,JP14,JP15,JP16, JP18,JP19,JP20,JP21,JP22, JP23,JP24,JP25,JP30,JP31, JP32,JP33,JP34,JP36,JP38 JP39,JP41,JP42,JP44	Header 2x1	SIP\2P			2 PIN HEADER 0.1"
18	14	JP2,JP3,JP4,JP35,JP37 JP11,JP17,JP26,JP27,JP28 JP29,JP40,JP43,JP46	HEADER 3x1	SIP\3P			3 PIN HEADER 0.1"
19	1	JP45	HEADER 4X2				
20	2	J1,J2,J3,J4	RJ45		AMP	5558342-1	A31466-ND
21	2	J1,J2	RJ45 w/Transformer		PULSE	J1011F21PNL	553-1622-5-ND
22	1	J5	Male MII connector		TW/Goal Ray	MDC-40MM-3-C2	MDS-40MM-3-C2	Micrel
23	1	J6	Female MII connector		Tyco/AMP	5787170-4	A31806-ND	Micrel
24	1	J7	POWER JACK		Switchcraft	RAPC712X	SC237-ND
25	4	LED1,LED2,LED3,LED4	LEDx2 3mm-T		Lumex Opto/Components Inc	SSF-LXH240GGD	67-1321-ND
26	1	RJ1	RJ45		Belfuse	SS-6488S-A-FLS-50	
27	11	R1,R2,R3,R92,R124,R125, R126,R133,R155,R156,R157	10K	0603			
28	12	R4,R8,R15,R93,R94,R95, R96,R103,R146,R147,R148, R149	4.7K	0603			
29	5	R5,R104,R130,R131,R144	330	0603			
30	1	R6	12.4K 1%	0603			
31	8	R57,R59,R61,R67,R75, R77,R79,R85	0	0402			
32	2	R7,R102	0	0603			
33	6	R9,R10,R11,R12,R13,R14	750	0603			
34	12	R16,R17,R19,R21,R22,R24, R25,R26,R28,R30,R31,R33, R34,R35,R37,R39,R40,R42,	51	0603			

#	Qty	Reference	Value	Footprint	Mfr	Part Number	Dist Part #	Notes
		R43,R44,R47,R48,R50,R51, ~~R68,R86~~						
35	6	~~R18,R27,~~R36,R45,R107, R111,R114,R115	75	0603				
36	9	R20,R23,R29,R32,R38,R41, R46,R49,R145,~~R7,R102~~	470	0603				
37	8	~~R52,R53,R63,R64,R70,R71, R80,R81~~	82	0603				DNI DNI
38	10	~~R54,R55,R65,R66,R69,R72, R73,R82,R83,R87~~	130	0603				DNI DNI
39	3	~~R56,R58,R60,R62,R74,R76, R78,R84,~~R127,R128,R129	R	0603				DNI
40	6	R97,R98,R99,R100,R101, R158	1K	0603				
41	1	R105	12.1K	0603				
42	2	R118,R122	220	0603				
43	16	R88,R89,R90,R91, R106,R108,R109,R110,R112, R113,R116,R117,R119,R120, R121,R123	22	0402				
44	4	R132,R136,R140,R142	33.2K	0603				
45	1	R134	15.8K	0603				
46	1	R135	24.9K	0603				
47	1	R137	47.5K	0603				
48	1	R138	51.1K	0603				
49	1	R139	23.2K	0603				
50	1	R141	16.5K	0603				
51	1	R143	7.5K	0603				
52	2	R150,R151	200K	0603				
53	2	R152,R153	27	0603				
54	1	R154	1.5K	0603				
55	1	S1	SW PUSHBUTTON		Panasonic	EVQ-PHP03T	P8002SCT-ND	
56	9	TP1,TP2,TP3,TP4, TP5,TP6,TP7,TP8,TP9	TestPoint					
57	2	~~T1,T2,~~T3,T4	SINGLE Port		PULSE	H1102NL	553-1323-ND	
58	1	T5	SINGLE Port		PULSE	H5007NL		
59	1	U1	KSZ8795	80-Pin LQFP	Micrel	KSZ8895CLX		Micrel

60	1	U1	KSZ8765	80-Pin LQFP	Micrel	KSZ8865CLX		DNI
61	2	U2,U3	1x9/SC/SIP Socket				9-pin Socket 0.1"	DNI
62	1	U4	KSZ9031RNX	48-Pin QFN	Micrel	KSZ9031RNX		Micrel
63	2	U5,U6	MIC94325YMT	6-pin Thin DFN	Micrel	MIC94325YMT		Micrel
64	2	U7,U11	MIC33153YHJ	14-pin MLF	Micrel	MIC33153YHJ		Micrel
65	2	U8,U9	MIC94345-4YMT	6-pin Thin DFN	Micrel	MIC94345-4YMT		Micrel
66	2	U10,U12	MIC94345-SYMT	6-pin Thin DFN	Micrel	MIC94345-SYMT		Micrel
67	2	U13,U15	PCA9306DCU	VSSOP8	NXP	PCA9306DCU		
68	1	U14	USB Controller	LQFP-48	FDTI	FT2232D		
69	2	Y1,Y2	25MHZ Crystal 50ppm		Epson	CA-301 25.0000M-C:PBFREE	SER3441-ND	
70	1	Y3	6MHz Crystal 50ppm		Epson	CA-301 6.0000M-C:PBFREE		

Note1: Jumber closed for the assembly as follows, JP2 1-2, JP3 1-2, JP4 1-2, JP7, JP11 2-3, JP17 1-2, JP12-JP24 Open with jumpers, JP30, JP31, JP32, JP33, JP26 1-2, JP27 1-2, JP28 1-2, JP29 1-2, JP40 1-2, JP35 1-2, JP37 1-2, JP34, JP36, JP38,JP39,JP41,JP42,JP43 1-2, JP44, JP46 1-2, JP45 1-2, 3-4, 5-6, 7-8,