

SKP16C1N SKP Board					BILL OF MATERIALS			Rev. 1.2	DATE
ITEM NO	DNP	DESCRIPTION	Designators	QTY PER	Mfg	Mfg P/N	Vendor	Vendor P/N	PACKAGE TYPE
1									
2		M16C/1N MCU	U1	1	Renesas	M301N2F8TFP			48 P6Q
3		RS232 Interface	U4	1	Maxim	MAX202CSE	Digikey	MAX202CSE	SOIC-16/ Narrow/Wide
4		Adjustable Voltage Regulator	U5	1	National Semi	LM317EMP	Digikey	LM317EMP	SOT-223
5		LIN Transceiver	U6	1	ST Micro	L9637D			SO-8
6		CAN Transceiver	U2	1	Philips	PCA82C250			
7		Quad Analog Switch (low on resistance)	U7	1	TI	CD74HC4066M96	Digikey	296-9224-1-ND	SO-14
8									
9		Thermistor 10K Ohm	RT1	1	BC Comp	2322 640 66103	Digikey	BC1482-ND	805
10		Pot 10K Ohm	R22,R46	2	Bourns	3352T-1-103	Digikey	3352T-103-ND	See Drawing
11									
12		Resistor 680 Ohm	R24,R25,R26,R43	4	Panasonic	ERJ-6GEYJ681V	Digikey	P680ATR-ND	805
13		Resistor 10K Ohm	R14,R16,R19,R20,R21,R23,R32,R33, R34,R35,R37,R38,R39,R47,R48,R49, R50,R51,R53	19	Panasonic	ERJ-6GEYJ103V	Digikey	P10KATR	805
14		Resistor 0 Ohm	R2,R18	2	Panasonic	ERJ-6GEY00V	Digikey	P0.0ATR	805
15		Resistor 7.32K	R3	1	Panasonic	ERJ-6ENF7321V	Digikey	P7.32KCTR-ND	805
16		Resistor 100K Ohm	R15	1	Panasonic	ERJ-6GEYJ104V	Digikey	P100KATR	805
17		Resistor 47K Ohm	R13	1	Panasonic	ERJ-6GEYJ473V	Digikey	P47KATR	805
18		Resistor 301	R41	1	Panasonic	ERJ-6ENF3010V	Digikey	P301CTR-ND	805
19		Resistor 909	R45	1	Panasonic	ERJ-6ENF9090V	Digikey	P909CTR-ND	805
20		Resistor 120	R29	1	Panasonic	ERJ-8GEYJ121V	Digikey	P120ETR-ND	1206
21									
22		Capacitor 47uF 25V	C18	1	Panasonic	EEV-HD1C470P	Digikey	PCE3340TR-ND	EIA-A
23		Capacitor 10uF	C20	1	Panasonic	EEV-HD1C100R	Digikey	PCE3338CT-ND	EIA-A
24		Capacitor 0.1uF 16V ceramic	C1,C2,C3,C6,C7,C11,C12,C13,C14,C 15,C16,C17,C19,C21,C22	15	Panasonic	ECJ-2VB1C104K	Digikey	PCC1812TR	805
25		Capacitors 18pF 50V ceramic	C4,5	2	Panasonic	ECJ-2VC1H180J	Digikey	PCC180CNTR-ND	805
26		Capacitors 33pF 50V ceramic	C8,10	2	Panasonic	ECJ-2VC1H330J	Digikey	PCC330CGTR	805
27									
28		Green LED Thru-holle	D5,D7	2	Panasonic	LN38GP	Digikey	P364-ND	T1
29		Red LED Thru-holle	D3	2	Panasonic	LN28RP	Digikey	P363-ND	T1
30		Yellow LED Thru-holle	D4	1	Panasonic	LN48YP	Digikey	P365-ND	T1
31		FMMD914CT-ND	D2,D6	2	Zetex Inc.	FMMD914TA	Digikey	FMMD914TR-ND	SOT-23
32		MOSFET N-CH DUAL 30V 3.7A	Q1	1	Fairchild	NDS9956A	Digikey	NDS9956ATR-ND	SO-8
33		MOSFET P-CHAN -20V -0.8A	Q2,Q3,Q4	3	Zetex	ZXM61P02FTA	Digikey	ZXM61P02FTR-ND	SOT23
34									
35		Switich, Pushbutton	S1,S2,S3,S4	4		EVQ-PAC04M	Digikey	P8006S-ND	
36									
37		2 Pin Header	JP1,JP3,JP5,JP9	4	Sullins	PTC02SAAN	Digikey	S1012-02-ND	
38		Header 5 X 2	J2	1	AMP	103308-1	Digikey	A26267-ND	100 mil
39		DB-9 FEMALE RS232 CONNECTOR	P1	1	AMP	745781-4	Digikey	A2100-ND	
40		CONN JACK POWER 2.1MM PCB	J4	1	CUI	PJ-102A	Digikey	CP-102A-ND	
41		3 X 2 header	JP4	1	Waldom	10-88-1041	Digikey	WM6904-ND	
42									
43		Crystal 16 MHz	Y2	1	ECS Inc	ECS-160-20-4	Digikey	X176-ND	HC-49US
44		Crystal 32 kHz	Y1	1	Citizen	CFS206-32.768KDZF	Digikey	300-1002-ND	cylinder
45									
46		Test Point, Black	TP1	1	Keystone	5011.00	Digikey	5011K-ND	See Drawing
47	*								
48		LCD	U3	1	AZ Displays	ACM802B			
49		7X2 Socket	H2	1	Samtec	SLW-107-01-T-D			100 MIL
50		7X2 Header	H1	1	Samtec	TLW-107-05-T-D			
51									
52									
53		Shunts	For item 37,41	5	Sullins	STC02SYAN	Digikey	S9000-ND	100 MIL
54		Bump-ons	H3	5	3M	3MSJ5018BLKC	Jameco	142682	See Drawing
55			1 Bump-on applied to back of LCD						
56									
		Do Not Populate	J1						
		PC Board		1	Renesas	RDECE1N			
		* Indicates Do Not Populate							