

NetSC520 Reference Design Revised: Tuesday, October 10, 2000
COVER Revision: 1.0

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Bill Of Materials Page1

Item	AMD Part Numbe	Quantity	Reference	Part Spec	PCB Footprint	Value
1	4200009-020	1	BT1	Keystone 500	TH-2	12mm 3V Coincell
2	6100001-104	65	C1,C2,C3,C4,C5,C6,C7,C13, C14,C15,C16,C17,C18,C26, C27,C28,C30,C32,C33,C37, C40,C42,C44,C45,C46,C47, C48,C60,C61,C62,C63,C64, C73,C74,C75,C79,C82,C83, C86,C87,C88,C89,C90,C99, C100,C101,C102,C103,C112, C116,C119,C120,C121,C122, C127,C128,C129,C130,C142, C144,C150,C152,C158,C160, C164	+/-10%, X7R, 16V	603	0.1uF
3	6100001-224	10	C8,C9,C10,C11,C139,C140, C147,C148,C155,C156	+/-10%, X7R, 10V	603	0.22uF
4	6000000-004	1	C12	+/-5%, NPO, 16V	603	4.7pF
5	6000000-047	2	C19,C20	+/-5%, NPO, 16V	603	47pF
6	6100000-103	29	C23,C34,C35,C38,C39,C54, C55,C56,C57,C58,C59,C71, C72,C80,C81,C123,C124, C125,C126,C131,C132,C133, C134,C138,C145,C153,C161, C165,C166	+/-10%, X7R, 16V	603	0.01uF
7	6000000-015	1	C43	+/-5%, NPO, 16V	603	15pF
8	6000000-018	2	C84,C85	+/-5%, NPO, 16V	603	18pF
9	6000000-181	16	C91,C92,C93,C94,C95,C96, C97,C98,C104,C105,C106, C107,C108,C109,C110,C111	+/-5%, NPO, 16V	603	180pF
10	6000000-101	1	C118	+/-5%, NPO, 16V	603	*100pF
11	6000000-102	1	C137	+/-5%, NPO, 16V	603	0.001uF
12	6100000-152	3	C146,C154,C162	+/-5%, X7R, 16V	603	1500pF
13	2050002-001	10	D1,D3,D4,D5,D6,D7,D9,D23, D26,D29	LUMEX SSL-LX15GC-RP-TR	SOT-23	LED, GREEN
14	2050002-003	5	D8,D10,D21,D24,D27	LUMEX SSL-LX15SYC-RP-TR	SOT-23	LED, YELLOW
15	2050009-052	3	D11,D13,D15	Motorola MBR0520LT1	SOD-123	Shottky Power Rectifier

16	2050009-340	3	D12,D14,D18	Motorola MBRS340T3	403-03	Shottky Power Rectifier
17	2050002-002	6	D16,D17,D20,D22,D25,D28	LUMEX SSL-LX15RC-RP-TR	SOT-23	LED, RED
18	2050001-414	1	D19	DIODES, INC MMBD4148	SOT-23	Switching Diode
19	2290001-602	3	FB2,FB3,FB4	MURATA BLM31A601SPT	1206	600ohm @ 100MHz
20	No Populate	2	GS2,GS1		25oval	GND_Short
21	4100009-014	4	JP1,JP2,JP3,JP4	SAMTEC TMM-107-03-T-D	TH-2X7X2MM	HEADER 2X7X2mm
22	4100001-002	1	JP5	AMP 103186-1	TH-2X1	HEADER2X1
23	4100013-045	1	J1	AMP 4-176264-5	2X22X2MM	IDE_CONN, 2mm
24	4200014-064	1	J2	Comm Con 1184-64G2	2X32X0.1IN	PC104 ISA8
25	4200014-040	1	J3	Comm Con 1184-40G2	2X20X0.1IN	PC104 ISA16
26	4200015-064	1	J4	Comm Con 1241-120G2	4X30X2MM	PC104 PCI
27	4000013-010	1	J5	STEWART CONN SI-40248	RJ45_Mag_LEDs	RJ-45_MAGJACK_LEDS
28	4000003-109	2	J7,J6	AMP 788753-2	DB9	DB9, R-Angle, Male
29	4000001-025	1	J8	Kycon KLD-0202-BC	TH-3	2.5MM Barrel Conn
30	2290002-472	3	L5,L6,L7	Coilcraft DT3316P-472	SMT-2	4.7uH
31	4100009-012	1	POD1	SAMTEC TMM-106-03-T-D	2X6X2MM	AMDebug PORT
32	4900001-001	1	P1	Johnson 105-0851-001	TH-1	Test Jack, White
33	4900001-002	1	P2	Johnson 105-0853-001	TH-1	Test Jack, Black
34	4900001-003	1	P3	Johnson 105-0852-001	TH-1	Test Jack, Red
35	2150002-396	1	Q1	Motorola MMBT3906LT1	SOT-23	PNP Transistor
36	2150002-394	1	Q2	Motorola MMBT3904LT1	SOT-23	NPN Transistor
37	5300022-022	4	RN2,RN3,RN4,RN5	CTS 743C083220J	RP1206-S8	RN-8I, 22
38	5300022-102	5	RN6,RN7,RN8,RN9,RN12	CTS 743C083102J	RP1206-S8	RN-8I, 1K
39	5300022-033	1	RN10	CTS 743C083330J	RP1206-S8	RN-8I, 33
40	5300022-472	8	RN11,RN13,RN14,RN15,RN16, RN17,RN18,RN19	CTS 743C083472J	RP1206-S8	RN-8I, 4.7K
41	5400010-472	6	RP1,RP2,RP3,RP4,RP11, RP12	CTS 770101472	SIP-10	SIP-9I, 4.7K
42	5100000-047	2	R1,R2	+/-5%, 1/16W, 50V	603	47
43	5100000-472	6	R4,R5,R29,R40,R41,R59	+/-5%, 1/16W, 50V	603	4.7K
44	5100000-022	2	R6,R7	+/-5%, 1/16W, 50V	603	22
45	5100000-473	1	R8	+/-5%, 1/16W, 50V	603	47K
46	5100000-271	3	R9,R64,R65	+/-5%, 1/16W, 50V	603	270
47	5100000-103	5	R10,R23,R30,R72,R74	+/-5%, 1/16W, 50V	603	10K
48	5100000-033	7	R11,R12,R13,R14,R32,R54, R55	+/-5%, 1/16W, 50V	603	33
49	5100000-331	5	R15,R16,R17,R18,R53	+/-5%, 1/16W, 50V	603	*330
50	5100000-471	5	R19,R20,R21,R22,R56	+/-5%, 1/16W, 50V	603	*470
51	5100000-152	6	R24,R26,R27,R28,R98,R99	+/-5%, 1/16W, 50V	603	1.5K
52	5100000-681	1	R25	+/-5%, 1/16W, 50V	603	680
53	5000000-049	3	R31,R34,R35	+/-1%, 1/16W, 50V	603	49.9, 1%
54	5000000-202	1	R33	+/-1%, 1/16W, 50V	603	2K, 1%
55	5100000-123	1	R36	+/-5%, 1/16W, 50V	603	12K
56	5100000-161	12	R37,R38,R75,R77,R78,R81, R82,R85,R86,R89,R90,R93	+/-5%, 1/16W, 50V	603	160
57	5000000-102	1	R39	+/-1%, 1/16W, 50V	603	1K, 1%
58	5100000-242	4	R44,R45,R46,R47	+/-5%, 1/16W, 50V	603	2.4K
59	5100000-000	14	R48,R49,R51,R69,R70,R79, R80,R83,R84,R87,R88,R91,	+/-5%, 1/16W, 50V	603	0

			R92,R94				
60	5100000-010	1	R50	+/-5%, 1/16W, 50V	603	10	
61	5100000-000	1	R58	+/-5%, 1/16W, 50V	603	*0	
62	5000000-168	1	R60	+/-1%, 1/16W, 50V	603	165, 1%	
63	5000000-499	3	R61,R63,R67	+/-1%, 1/16W, 50V	603	4.99K, 1%	
64	5000000-536	1	R62	+/-1%, 1/16W, 50V	603	5.36K, 1%	
65	5000000-182	1	R66	+/-1%, 1/16W, 50V	603	1.82K, 1%	
66	5100000-513	1	R71	+/-5%, 1/16W, 50V	603	51K	
67	5100000-102	5	R73,R76,R95,R96,R97	+/-5%, 1/16W, 50V	603	1K	
68	4300001-008	1	S2	GRAYHILL 90B08S	DIP-16	SW DIP-8	
69	4300001-003	1	S3	GRAYHILL 90B03S	DIP-6	SW DIP-3	
70	4300003-004	1	S4	C&K KT11P2SM	SMD-4	SW, Pushbitton, SMD	
71	6200002-407	2	TC9,TC1	+/-20%, TANTALUM, B-CASE, 16V	B-CASE	4.7uF	
72	6200002-225	3	TC2,TC4,TC10	+/-20%, TANTALUM, B-CASE, 16V	B-CASE	2.2uF	
73	6200002-108	3	TC5,TC7,TC8	+/-20%, TANTALUM, E-CASE, 16V	E-CASE	100uF	
74	6200002-109	3	TC11,TC16,TC19	+/- 20%, Tantalum, Low ESR, V-CASE, 20V	V-CASE	100uF, Low ESR	
75	6200002-278	3	TC12,TC17,TC20	+/- 20%, Tantalum, Low ESR, V-CASE, 16V	V-CASE	220uF, Low ESR	
76	6200013-476	3	TC13,TC18,TC21	+/- 20%, Tantalum, Low ESR, D-CASE, 16V	D-CASE	47uF, Low ESR	
77	6200010-106	2	TC28,TC14	+/- 20%, Tantalum, B CASE, 16V	B-CASE	10uF	
78	6200001-226	4	TC22,TC24,TC25,TC26	+/- 20%, Tantalum, C CASE, 16V	C-CASE	22uF	
79	No Populate	14	TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12,TP14,TP15			TP	
80	1130005-520	1	U1	AMD ElanSC520-133AC	BGA-388	ELAN SC520 MICROCONTROLLER	
81	1380010-010	2	U3,U2	Samsung K4S641632C-TC/L10	TSOP54	SDRAM_4MX16	
82	1380001-641	2	U5,U4	AMD Am29LV641DH90REI	TSOP48	FLASH_4MX16	
83	1340005-010	2	U9,U6	ATMEL AT93C46A-10SC-2.7	SO-8	MICROWIRE EEPROM, 1K	
84	1420008-015	1	U7	Lattice GAL16LV8C-15LC	PLCC20S	GAL16LV8	
85	1290001-973	1	U8	AMD Am79C973KC\W	PQR160	PCNet Fast-III	
86	1640001-327	2	U11,U10	LTC1327CG	SSOP28	RS232-3V	
87	1840005-003	1	U12	CYPRESS CY2305SC-1H	SO-8	CLOCK DRIVER	
88	1680002-506	3	U13,U14,U15	Linear Tech LT1506CS8	SO-8	Switching Regulator	
89	2980004-814	1	U16	MICREL MIC8114	SOT-143	RESET CHIP	
90	3100001-250	1	X1	ECLIPTEK ECSMA-25.000M	SMD-XTL1	XTAL, 25MHz	
91	3100002-328	1	X2	ECLIPTEK ECPSM29T	SMD-XTL2	XTAL, 32.768KHz	
92	3300001-333	1	X3	EPSON SG-636PCE-33.333MC2	SMD-OSC	OSC-33.333MHz	
93	3300001-145	1	Y1	ECLIPTEK EC2500ETT-14.318M	SMD-OSC2	OSC, 14.318MHz	
94	3300001-008	1	Y2	ECLIPTEK EC2500ETT-8.000M	SMD-OSC2	OSC, 8.000MHz	
95	No Populate	4	ZMH1,ZMH2,ZMH3,ZMH4	N/A	TH-1	Unplated Mounting Hole	
96	9900000-007	4	Z1,Z6,Z10,Z14	Comm Con HW-PC600P	N/A	PC/104 Standoff	
97	9900000-006	4	Z2,Z7,Z11,Z15	Comm Con HW-PC440NP	N/A	PC/104 Standoff Nut	
98	4900000-002	4	Z3,Z4,Z8,Z9	Samtec 2SN-BK	N/A	2mm Jumper	
99	4200004-021	1	Z5	SAMTEC PLCC-020-T-A	PLCC20P	PLCC20 SOCKET, W/ POSTS	
100	2390001-103	1	Z16	Panasonic BR1225	N/A	12mm 3V Lithium Battery	
101	0370001-012	1	Z17	Elpac W4012-760	N/A	Power Supply	