

AMD Geode™ NX DB1500 Rev 1.3 Development Board Schematic BOM



Scope

This document provides the bill of materials (BOM) for the AMD Geode™ NX DB1500 rev 1.3 development board schematic. It is presented in three different formats:

- Table 1 "All Components" on page 1
- Table 2 "Components Not Populated" on page 10

- Table 3 "Post Assembly Components" on page 10

Note: This is revision B of this document. The change from revision A (dated October 2004) is that it was updated to reflect rev 1.3 of the board (i.e., rev A addresses rev 1.2).

Table 1. All Components

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
1	1210003-009	1	IC: W83697HF, Winbond, Super I/O/LPC, PQFP128	U27	Winbond	W83697HF
2	12CM000001	1	IC: AMD, NetPHY-LP1, Am79C874, TQFP	U32	AMD	Am79C874
3	12DM000002	1	IC: ALC655, Realtek Audio Codec, LQFP48	U34	Realtek	ALC655
4	12F0000036	1	IC: VT8237, South Bridge, BGA539	U12	VIA	VT8237
5	12FM000002	1	IC: VIA, KN400A North Bridge, BGA552	U14	VIA	KN400A
6	1320004-075	1	IC: 29F004BT, 0.35 µm, 70 ns, 512k, top sector, PLCC32	U22	AMD	29F004BT
7	13HM000001	1	IC: 93C46, EEPROM, Serial, 1K, 10 ms, 2.7-5.5V, SOIC8	U18	ISSI	93C46
8	1540003-014	1	IC: 74HC14, TSSOP	U17	Fairchild	MM74HC14MTC
9	15NM000002	3	IC: Fairchild NC7SZ08 Single AND Gate, SOT23, VCC 2.5-5V	U205-U207	Fairchild	NC7SZ08
10	15NM000003	3	IC: Fairchild NC7SZ00 Single NAND Gate, SOT23, VCC 2.5-5V	U200, U201, U204	Fairchild	NC7SZ00
11	15NM000004	1	IC: SN74LVC07A, hex buffer, open drain, TSSOP-14	U11	Texas Instruments	SN74LVC07APW
12	15NM000005	2	IC: 74AC04, hex inverter, TSSOP-14	U16, U26	Fairchild	74AC04AMTC
13	16C0000002	1	IC: HIP6602A, Dual Sync-Rec Buck, MOSFET Driver, SOIC14	U24	Intersil	HIP6602BCB
14	16HM000001	1	IC: PulseCore, EMI, P2040a-08SR, SOIC8	U19	PulseCore	P2040a-08SR
15	16KM000001	1	IC: ISL6223, K7 mobile PWM Reg., SSOP20	U21	Intersil	ISL6223CA
16	16L0000001	1	IC: GD75232, Multi RS232 Drvr/Recvr, TSSOP20	U33	Texas Instruments	GD75232PWR
17	16LM000002	1	IC: ICS950902, K7 Clockgen, TSOP 56-pin	U25	ICS	ICS950902

Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
18	16MM000001	1	IC: LT1763, Linear Regulator, 500mA, SOIC8	U23	Linear Tech	LT1763CS8
19	16N0000005	1	IC: LMV7219, Voltage Comparator, 7 ns, 2.7-5V, SMT, SOT23-5	U202	National	LMV7219
20	16NM000001	1	IC: MAX6512, Temp. Switch, SOT23-6	U203	Maxim	MAX6512EUT105-T
21	16ZM000001	1	IC: LP2995, DDR Termination Regulator, PSOP-8	U1	National	LP2995MR
22	16ZM000002	1	IC: LM3477, PWM Controller, MSOP-8	U6	National	LM3477A
23	16ZM000003	1	IC: LP3982, Linear Regulator, MSOP-8	U20	National	LP3982IMM-ADJ
24	16ZM000004	1	IC: LP2985, Linear Regulator, 150 mA, SOT23-5	U15	National	LP2985IM5-2.5
25	19ZM000002	1	IC: NC7SZ74, D Flip-Flop, 1.65-5.5V, US8	U10	Fairchild	NC7SZ74K8X
26	2050001-054	1	Diode: Dual Schottky Barrier, BAT54A, SOT23	CR201	Any	Any
27	2050001-254	1	Diode: Dual Schottky Barrier, BAT54C, SOT23	CR203	Any	Any
28	2050001-454	7	Diode: Dual Schottky Barrier, BAT54S, SOT23	CR205-CR211	Any	Any
29	2050009-120	1	Diode: Schottky Barrier Rec, MBRA120LT3, 20V, 1A, SMA	CR3	Diodes Inc.	B120-13
30	20H0000030	3	Diode: 1N4148, 100V, 150 mA, MiniMELF, SMT	CR4, CR202, CR204	Any	Any
31	20HM000003	2	Diode: C190GKT, GREEN, EIA0603	CR1, CR2	Any	Any
32	20HM000011	1	Diode: Schottky Barrier Rectifier, 20V, 3A, SMA	CR200	Diodes Inc.	B340LA-13
33	2150001-702	24	Transistor: 2N7002, N-Channel FET, SOT23	Q1-Q6, Q201-Q203, Q205, Q207, Q209-Q213, Q217-Q222, Q225, Q226	Fairchild	2N7002
34	2150002-222	5	Transistor: MMBT2222A, SOT23	Q206, Q208, Q214, Q215, Q223	Fairchild	MMBT2222A
35	2150002-394	4	Transistor: MMBT3904A, SOT23	Q200, Q204, Q216, Q227	Fairchild	MMBT3904
36	2150002-396	1	Transistor: MMBT3906, PNP, SOT23	Q224	Fairchild	MMBT3906
37	21GM000001	2	Transistor: N-Chl Mosfet, IRF7821, SOIC8	U29, U30	International Rectifier	IRF7821
38	21GM000002	2	Transistor: N-Chl Mosfet, IRF7832, SOIC8	U28, U31	International Rectifier	IRF7832
39	21GM000004	5	Transistor: N-Chl Mosfet, FDS6612A, SOIC8, 8.4A, 30V, RDS = 22m ohms	U2, U3, U5, U8, U35	Fairchild	FDS6612A
40	2290017-010	10	Inductor: 0.010 μ H, 530ma, 5%, 1008	L2-L11	CoilCraft	1008CS-100XJBC

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Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
41	22HM000005	20	Ferrite: Bead, 60 ohm@100 MHz, DRC = 0.15 ohm, 500 mA, EIA0805	FB2, FB3, FB200, FB202, FB204, FB205, FB207-FB209, FB211-FB215, FB226, FB227, L200-L203	Yaego	SBK201209T-600Y-S
42	22HM000008	2	Inductor: 1.37uH, 22.5A, Power, Toroid, Radial, High Freq	L12, L13	Falco	T04427
43	22HM000009	16	Ferrite: 100 ohm@100 MHz, DRC = 0.20 ohm, 400 mA, EIA1206	FB1, FB4, FB5, FB201, FB203, FB210, FB216-FB225	Vishay-Dale	ILB1206RK100V
44	22HM000011	1	Ferrite: 300 ohm@100 MHz, DRC = 0.30 ohm, 250 mA, EIA1206	FB206	Vishay-Dale	ILB1206RK300V
45	22HM000012	1	Inductor: 1.10 uH, 12%, 4.0A, power, Toroid	L14	Falco	TTID0803-T03004
46	22HM000013	1	Inductor: 3.3 uH, CDRH8D28 Series, SMT	L1	Sumida	CDRH8D28-3R3
47	23DM000006	1	IC: AMS1117 V REG, 1A, SOT-223	U4, U7	Advanced Monolithic Systems	AMS1117
48	24R0000001	3	Fuse: 1.5, Resettable, 6.0V, SMT, 1206	F1, F200, F201	Little Fuse	1206L150WRT
49	32CM000001	2	Crystal: 25 MHz, 18 pF, AT cut, 50ppm, SMT	Y2, Y4	Ecliptek	EC2SM-25.000M
50	32CM000002	1	Crystal: 14.318 MHz, 18 pF, AT cut, 50ppm, SMT	Y3	Ecliptek	EC2SM-14.318M
51	32CM000003	1	Crystal: 32.768 kHz, 12.5 pF, AT cut, 20 ppm	Y1	Ecliptek	EC38T
52	4000001-020	1	Connector: ATX Power, 20-pin, 5566-N20	J15	AMP	794-358-1
53	4000001-207	2	Connector: Serial ATA, Signal, 7 Pos, Vertical, THT	J4, J5	Molex	67491-0010
54	4000002-120	1	Connector: Card Edge, PCI, 120 Pos	J11	AMP	145154-4
55	4000003-315	1	Connector: DSUB 15-pin, Female, 3 Row, Rt Angle, PC99	J18	FoxConn	DZ11AA1-B9
56	4000004-762	1	Connector: Cir Mini Din 6 Pos, Dual, 0.6 in Ctr-Ctr, PC99	J19	Foxconn	MH11061-PD2
57	4000005-333	1	Connector: D-Sub, 25 Pos, PC99, Female, Dual Row, Ext Leads, Rt Angle	J16	FoxConn	DM11351-PR3
58	40AM000002	1	Connector: 90 Deg PC Phono Jack, THT	J20	Keystone	901
59	40AM000004	1	Connector: Header 3 pos., 2 mm, THT	J13	Samtec	TMM-103-05-G-S
60	40AM000005	2	Connector: Header 4 pos. w/coining, 2 mm, THT	J8, J9	Molex	SD-89400-042
61	40AM000006	1	Connector: Serial/Audio, Stereo Jacks 3, DB9	J21	Foxconn	DM10151-PJ8
62	40AM000008	1	Connector: Header 9x2, 2.54 mm, THT	J7	Samtec	TSW-109-07-F-D

Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
63	40AM000010	1	Connector: RJ45/Dual USB, Stacked, w/Meg, w/LEDs, 10/100 Base, THT	J17	Pulse	J6026M51U
64	4100001-005	1	Header: 5x1, .230, Str	J6	AMP	103239-5
65	4100002-010	1	Header: 5x2, .230	J3	AMP	103240-5
66	4100003-116	1	Header: 8x2, .1 Ctr, w/Shroud, Vert. (HDT)	J1	Samtec	TSW-108-07-F-D
67	4100003-140	1	Header: 20x2, .230, w/Shroud, Pin 20 Key	J2	AMP	111782-8
68	4100007-003	1	Header: 3x1, .1 in. Ctr, Locking Friction	J10	molex	22-27-2031
69	4100009-012	1	Header: 6x2, 2mm Ctr, Vertical, Molex 87089-1216	J12	Molex	87089-1216
70	4200004-033	1	Mech Part: PLCC32 SOCKET W/Stand-offs	U22	molex	822472-3
71	4200009-003	1	Socket: Battery, 2032, 20 mm, THT, Renata	B1	Renata	VBH2032-1
72	4200021-001	1	Socket: Socket 462, PGA, ZIF	U13	FoxConn	PZ46267-001-A
73	43AM000001	3	Switch: PTS453, 4.5 mm Tact Switch, THT	SW1-SW3	ITT Cannon	PTS453SL38
74	45A0000004	1	Socket: Card Edge, DDR DIMM, 184-pin, 1.27 mm ctr, Unbuffered, 2.5V, Green, THT	S1	AMP	390241-1
75	5000000-040	1	Resistor: 40.2, 1%, 1/16W, EIA0603	R300	Any	Any
76	5000000-049	5	Resistor: 49.9, 1%, 1/16W, EIA0603	R137, R140, R348, R439, R440	Any	Any
77	5000000-060	3	Resistor: 60.4, 1%, 1/16W, EIA0603	R57, R64, R84	Any	Any
78	5000000-101	4	Resistor: 100, 1%, 1/16W, EIA0603	R296, R297, R344, R345	Any	Any
79	5000000-102	6	Resistor: 1.0k, 1%, 1/16W, EIA0603	R3, R4, R34, R147, R343, R353	Any	Any
80	5000000-103	5	Resistor: 10.0k, 1%, 1/16W, EIA0603	R66, R119, R399, R407, R418	Any	Any
81	5000000-113	1	Resistor: 11.0k, 1%, 1/16W, EIA0603	R235	Any	Any
82	5000000-124	3	Resistor: 121.0k, 1%, 1/16W, EIA0603	R385, R386, R416	Any	Any
83	5000000-127	1	Resistor: 12.7k, 1%, 1/16W, EIA0603	R232	Any	Any
84	5000000-163	1	Resistor: 16.9k, 1%, 1/16W, EIA0603	R237	Any	Any
85	5000000-201	4	Resistor: 200, 1%, 1/16W, EIA0603	R220, R226, R290, R314	Any	Any
86	5000000-203	4	Resistor: 20k, 1%, 1/16W, EIA0603	R213, R236, R253, R391	Any	Any
87	5000000-234	1	Resistor: 232k, 1%, 1/16W, EIA0603	R417	Any	Any
88	5000000-253	1	Resistor: 20.5k, 1%, 1/16W, EIA0603	R201	Any	Any

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Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
89	5000000-283	2	Resistor: 28k, 1%, 1/16W, EIA0603	R86, R408	Any	Any
90	5000000-301	1	Resistor: 301, 1%, 1/16W, EIA0603	R63	Any	Any
91	5000000-302	2	Resistor: 3.01k, 1%, 1/16W, EIA0603	R342, R354	Any	Any
92	5000000-432	1	Resistor: 4.32k, 1%, 1/16W, EIA0603	R323	Any	Any
93	5000000-562	2	Resistor: 56.2k, 1%, 1/16W, EIA0603	R415, R419	Any	Any
94	5000000-602	1	Resistor: 6.04k, 1%, 1/16W, EIA0603	R74	Any	Any
95	5000000-603	1	Resistor: 60.4k, 1%, 1/16W, EIA0603	R388	Any	Any
96	5000000-806	1	Resistor: 806, 1%, 1/16W, EIA0603	R383	Any	Any
97	5000000-903	1	Resistor: 90.9k, 1%, 1/16W, EIA0603	R85	Any	Any
98	50B0000008	1	Resistor: 86.6K, 1%, 1/16W, EIA0603	R228	Any	Any
99	50B0000018	3	Resistor: 365, 1%, 1/16W, EIA0603	R242, R331, R347	Any	Any
100	50B0000042	1	Resistor: 475.0, 1%, 1/16W, EIA0603	R115	Any	Any
101	50B0000096	1	Resistor: 19.1k, 1%, 1/16W, EIA0603	R394	Any	Any
102	50BM000002	1	Resistor: 147, 1%, 1/16W, EIA0603	R82	Any	Any
103	50BM000003	1	Resistor: 56.2, 1%, 1/16W, EIA0603	R302	Any	Any
104	50BM000006	3	Resistor: 13.0k, 1%, 1/16W, EIA0603	R234, R238, R254	Any	Any
105	50BM000009	1	Resistor: 221.0, 1%, 1/16W, EIA0603	R233	Any	Any
106	5100000-000	11	Resistor: 0, 1/16W, EIA0603	R30, R70, R87-R89, R200, R239, R240, R267, R284, R380	Any	Any
107	5100000-005	5	Resistor: 5.1, 5%, 1/16W, EIA0603	R90, R100, R112, R146, R341	Any	Any
108	5100000-010	13	Resistor: 10, 5%, 1/16W, EIA0603	R8, R9, R11, R13, R15, R17, R20, R22, R25, R62, R91, R92, R230	Any	Any
109	5100000-022	39	Resistor: 22, 5%, 1/16W, EIA0603	R10, R12, R14, R16, R18, R19, R21, R24, R55, R58, R59, R93-R97, R104, R106-R108, R111, R114, R117, R121, R123, R125, R126, R129-R131, R133, R134, R138, R139, R337, R379, R381, R459, R470	Any	Any

Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
110	5100000-033	10	Resistor: 33, 5%, 1/16W, EIA0603	R2, R31, R33, R365-R370, R377	Any	Any
111	5100000-051	1	Resistor: 51, 5%, 1/16W, EIA0603	R269	Any	Any
112	5100000-056	2	Resistor: 56, 5%, 1/16W, EIA0603	R324, R333	Any	Any
113	5100000-068	1	Resistor: 68, 5%, 1/16W, EIA0603	R225	Any	Any
114	5100000-075	3	Resistor: 75, 5%, 1/16W, EIA0603	R456-R458	Any	Any
115	5100000-082	1	Resistor: 82, 5%, 1/16W, EIA0603	R101	Any	Any
116	5100000-101	3	Resistor: 100, 5%, 1/16W, EIA0603	R454, R468, R469	Any	Any
117	5100000-102	25	Resistor: 1k, 5%, 1/16W, EIA0603	R83, R241, R251, R268, R272, R279, R287, R289, R291, R293, R356, R357, R376, R387, R410, R411, R426-R428, R431, R432, R435-R437, R444	Any	Any
118	5100000-103	60	Resistor: 10k, 5%, 1/16W, EIA0603	R1, R23, R40, R54, R73, R76, R80, R81, R122, R124, R127, R128, R132, R143, R148, R149, R212, R214, R221, R222, R227, R255-R261, R263, R276, R281, R283, R308, R309, R318-R322, R326, R328, R332, R338, R355, R360, R361, R363, R371, R375, R384, R395, R412, R433, R434, R441, R442, R448-R451	Any	Any
119	5100000-105	2	Resistor: 1M, 5%, 1/16W, EIA0603	R48, R49	Any	Any
120	5100000-152	3	Resistor: 1.5k, 5%, 1/16W, EIA0603	R210, R211, R429	Any	Any
121	5100000-153	9	Resistor: 15k, 5%, 1/16W, EIA0603	R39, R218, R219, R223, R224, R445, R446, R452, R453	Any	Any
122	5100000-162	2	Resistor: 1.6k, 5%, 1/16W, EIA0603	R98, R99	Any	Any
123	5100000-221	1	Resistor: 220, 5%, 1/16W, EIA0603	R455	Any	Any
124	5100000-222	27	Resistor: 2.2K, 5%, 1/16W, EIA0603	R37, R38, R42, R56, R60, R61, R69, R71, R72, R78, R79, R247, R273, R275, R285, R286, R288, R313, R397, R403, R404, R414, R422-R425, R443	Any	Any
125	5100000-223	6	Resistor: 22k, 5%, 1/16W, EIA0603	R460, R463-R467	Any	Any

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Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
126	5100000-271	9	Resistor: 270, 5%, 1/16W, EIA0603	R53, R202-R205, R295, R298, R350, R358	Any	Any
127	5100000-273	1	Resistor: 27K, 5%, 1/16W, EIA0603	R401	Any	Any
128	5100000-331	3	Resistor: 330, 5%, 1/16W, EIA0603	R7, R28, R35	Any	Any
129	5100000-332	2	Resistor: 3.3k, 5%, 1/16W, EIA0603	R245, R248	Any	Any
130	5100000-471	4	Resistor: 470, 5%, 1/16W, EIA0603	R216, R292, R294, R420	Any	Any
131	5100000-472	63	Resistor: 4.7k, 5%, 1/16W, EIA0603	R5, R26, R29, R36, R41, R44-R47, R50-R52, R68, R75, R77, R144, R145, R231, R243, R244, R249, R250, R252, R262, R264-R266, R274, R280, R282, R310-R312, R325, R327, R329, R330, R334-R336, R339, R340, R352, R362, R364, R372, R373, R390, R392, R393, R396, R398, R400, R402, R405, R406, R409, R413, R421, R438, R447, R461, R462	Any	Any
132	5100000-474	2	Resistor: 470k, 5%, 1/16W, EIA0603	R27, R471	Any	Any
133	5100000-511	7	Resistor: 510, 5%, 1/16W, EIA0603	R206-R209, R215, R217, R270	Any	Any
134	5100000-562	3	Resistor: 5.6k, 5%, 1/16W, EIA0603	R32, R43, R141	Any	Any
135	5100000-563	1	Resistor: 56k, 5%, 1/16W, EIA0603	R277	Any	Any
136	5100000-564	2	Resistor: 560k, 5%, 1/16W, EIA0603	R229, R472	Any	Any
137	5100000-681	13	Resistor: 680, 5%, 1/16W, EIA0603	R278, R299, R301, R303-R307, R315, R316, R349, R351, R359	Any	Any
138	5100000-753	1	Resistor: 75k, 5%, 1/16W, EIA0603	R271	Any	Any
139	5100000-822	5	Resistor: 8.2k, 5%, 1/16W, EIA0603	R67, R105, R113, R135, R136	Any	Any
140	51BM000002	2	Resistor: 27 ohm, 5%, EIA0603	R102, R103	Any	Any
141	5300008-022	16	RNET: 22, ISO, 4 Resistor, EIA0603 Array	RN27-RN42	Any	Any
142	5300008-033	36	RNET: 33, ISO, 4 Resistor, EIA0603 Array	RN1-RN26, RN51, RN201-RN207, RN217, RN218	Any	Any
143	5300008-101	2	RNET: 100, ISO, 4 Resistor, EIA0603 Array	RN210, RN211	Any	Any
144	5300008-103	7	RNET: 10K, ISO, 4 Resistor, EIA0603 Array	RN46, RN48-RN50, RN52-RN54	Any	Any

Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
145	5300008-222	3	RNET: 2.2K, ISO, 4 Resistor, EIA0603 Array	RN209, RN212, RN216	Any	Any
146	5300008-332	3	RNET: 3.3k, ISO, 4 Resistor, EIA0603 Array	RN45, RN200, RN208	Any	Any
147	5300008-472	8	RNET: 4.7K, ISO, 4 Resistor, EIA0603 Array	RN213-RN215, RN219-RN223	Any	Any
148	56GM000002	2	Resistor: 0.0, Power, 1W, 1%, EIA2512	R109, R110	Any	Any
149	56GM000003	1	Resistor: 0.008 ohm, Power, 1W, 1%, EIA2512	R6	Any	Any
150	59BM000001	2	Thermistor: B = 3435, 10k@25C, 0603	R65, R120	Any	Any
151	6000000-004	5	Capacitor: 4.7 pF, 5%, 50V, COG, EIA0603	C88, C106, C114, C116, C119	Any	Any
152	6000000-018	2	Capacitor: 18 pF, 10%, 50V, COG, EIA0603	C134, C135	Any	Any
153	6000000-020	2	Capacitor: 20 pF, 10%, 50V, COG, EIA0603	C316, C317	Any	Any
154	6000000-022	5	Capacitor: 22 pF, 10%, 50V, COG, EIA0603	C240, C241, C364-C366	Any	Any
155	6000000-033	4	Capacitor: 33 pF, 10%, 50V, COG, EIA0603	C68, C76, C120, C128	Any	Any
156	6000000-039	4	Capacitor: 39 pF, 10%, 50V, COG, EIA0603	C82, C83, C90, C93	Any	Any
157	6000000-047	6	Capacitor: 47 pF, 10%, 50V, COG, EIA0603	C111, C152, C356, C357, C367, C368	Any	Any
158	6000000-121	4	Capacitor: 120 pF, 10%, 50V, COG, EIA0603	C62, C63, C66, C67	Any	Any
159	6000000-473	9	Capacitor: .047 μ F, 10%, 16V, X7REIA0603	C319, C321, C323, C324, C329, C334-C336, C338	Any	Any
160	6000000-681	2	Capacitor: 680 pF, 10%, 50V, COG, EIA0603	C77, C85	Any	Any
161	60BM000001	1	Capacitor: 2200 pF, 10%, 50V, COG, EIA0603	C233	Any	Any
162	60BM000002	1	Capacitor: 1800 pF, 10%, 50V, COG, EIA0603	C229	Any	Any
163	6100000-101	7	Capacitor: 100 pF, 20%, 50V, X7R, EIA0603	C358-C361, C363, C370, C372	Any	Any
164	6100000-102	7	Capacitor: 1000 pF, 20%, 50V, X7R, EIA0603	C149, C150, C252, C262, C268, C304, C332	Any	Any
165	6100000-103	29	Capacitor: .01 μ F, 20%, 50V, X7R, EIA0603	C49, C50, C89, C91, C100, C121, C122, C129, C231, C232, C236, C242, C244, C256, C258, C260, C274, C277, C281, C282, C284, C286, C295, C299, C301, C303, C310, C318, C362	Any	Any
166	6100000-104	10	Capacitor: .1 μ F, 20%, 50V, Z5U, EIA0603	C9, C118, C124, C125, C139, C239, C271, C320, C328, C330	Any	Any

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Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
167	6100000-152	1	Capacitor: 1500 pF, 20%, 50V, X7R, EIA0603	C112	Any	Any
168	6100000-223	1	Capacitor: .022 μ F, 20%, 50V, X7R, EIA0603	C117	Any	Any
169	6100000-473	1	Capacitor: .047 μ F, 20%, 16V, Z5U, EIA0603	C243	Any	Any
170	6100001-104	131	Capacitor: .1 μ F, 20%, 16V, X7R, EIA0603	C1, C2, C7, C8, C10, C11, C13-C15, C17, C18, C20-C24, C26-C29, C31-C34, C36-C39, C41-C46, C48, C52, C56, C60, C61, C64, C65, C107, C108, C113, C115, C136, C151, C157, C203, C205-C226, C238, C245, C247, C249, C250, C253-C255, C257, C259, C261, C263-C267, C269, C270, C272, C275, C276, C279, C280, C283, C285, C287-C289, C291-C294, C296-C298, C300, C302, C307, C311-C313, C325, C326, C339-C342, C344-C347, C350-C355, C375-C377	Any	Any
171	6100001-224	14	Capacitor: .22 μ F, 20%, 10V, X7R, EIA0603	C12, C16, C19, C25, C30, C35, C40, C47, C72, C78, C81, C94, C99, C103	Any	Any
172	6100005-101	2	Capacitor: 100 μ F, 16V, 20%, 6.3x11mm	C146, C147	Any	Any
173	6100012-475	10	Capacitor: 4.7 μ F, 10V, 80/20%, X7R, EIA1206	C70, C71, C73-C75, C84, C86, C87, C246, C349	Any	Any
174	6100022-226	5	Capacitor: 22 μ F, 10%, 16V, X7R, EIA2220	C54, C130-C133	Any	Any
175	61B0000007	3	Capacitor: 2.2 μ F, 10%, 6.3V, X5R, EIA0603	C369, C371, C373	Any	Any
176	61DM000001	34	Capacitor: 10 μ F, 20%, 16V, X7R, EIA1206	C4, C6, C53, C55, C92, C95, C98, C101, C102, C104, C105, C126, C137, C138, C155, C156, C200-C202, C227, C273, C278, C290, C305, C306, C308, C314, C322, C327, C331, C337, C343, C348, C374	Any	Any
177	62BM000001	24	Capacitor: 1 μ F, 20%, 16V, Y5V, EIA0603	C51, C57, C123, C140-C145, C148, C153, C154, C204, C228, C230, C234, C235, C237, C248, C251, C309, C315, C333, C378	Any	Any
178	64NM000001	8	Capacitor: 1000 μ F, 6.3V, 20%, 8x11.5 mm, 30m Ohm ESR	C3, C5, C58, C59, C109, C110, C127, C158	Any	Any

Table 1. All Components (Continued)

Item	Part Number	Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
179	66LM000001	4	Capacitor: 680 μ F, 2.5V, ESR 25mOhm, POSCAP, 20%, D-CASE	C79, C80, C96, C97	Sanyo	2R5TPD680M
180	68D0000002	7	CNET: 180 pF, 10%, 50V, COG, 4cap, 0603, array	CN200-CN206	Any	Any
NA	NA	8	Shorted 0603 resistor foot-prints	R116, R118, R142, R317, R346, R378, R382, R430	NA	NA

Table 2. Components Not Populated

Item	Part Number	Qty	Description	Reference Designator
14	16HM000001	1	IC: PulseCore, EMI, P2040a-08SR,SOIC8	U19
33	2150001-702	1	Transistor: 2N7002, N-Channel FET,SOT23	Q205
106	5100000-000	5	Resistor: 0, 1/16W, EIA0603	R87-R89, R240, R284
107	5100000-005	1	Resistor: 5.1, 5%, 1/16W, EIA0603	R112
109	5100000-022	1	Resistor: 22, 5%, 1/16W, EIA0603	R381
117	5100000-102	4	Resistor: 1k, 5%, 1/16W, EIA0603	R268, R291, R293, R387
118	5100000-103	6	Resistor: 10k, 5%, 1/16W, EIA0603	R23, R76, R124, R212, R227, R434
124	5100000-222	5	Resistor: 2.2K, 5%, 1/16W, EIA0603	R37, R38, R42, R286, R397
131	5100000-472	10	Resistor: 4.7k, 5%, 1/16W, EIA0603	R264, R265, R274, R312, R327, R362, R364, R402, R405, R413
153	6000000-020	2	Capacitor: 20 pF,10%,50V,COG,EIA0603	C316, C317
155	6000000-033	2	Capacitor: 33 pF,10%,50V,COG,EIA0603	C120, C128
165	6100000-103	1	Capacitor: .01 μ F,20%,50V,X7R,EIA0603	C242
170	6100001-104	1	Capacitor: .1 μ F,20%,16V,X7R,EIA0603	C312
177	62BM000001	1	Capacitor: 1 μ F,20%,16V,Y5V,EIA0603	C228
178	64NM000001	1	Capacitor: 1000 μ F,6.3V,20%,8x11.5 mm, 30m Ohm ESR	C158
179	66LM000001	1	Capacitor: 680 μ F,2.5V,ESR 25m Ohm, POSCAP, 20%, D-CASE	C97

Table 3. Post Assembly Components

Qty	Description	Reference Designator	Manufacturer	Manufacturer Part Number
1	NX Processor	U13	AMD	Varies
1	NX Processor Heatsink	U13	AVC	S7YBJ00001
1	KN400 Heatsink	U14	Jet Motor	W014-0032
1	DDR SDRAM DIMM	S1	Any	Any
1	Coin Cell Battery Type 2032	B1	Any	Any
2	2mm Shorting Jumper	J12, J13	Any	Any

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