

notes:
 # see the example bom: openarm-sbc.bom
 # still missing:
 # total quantity of parts
 # total quantity of parts and the total cost of the individual sheets

file generated at Wed Apr 22 12:40:14 2009

id	description	manufacturer partid	manufacturer	order code	quantity	price	cost
1	CAPACITOR, 0805, 33PF, 100V	08051A330JAT2A	AVX	317603	2	0.062	0.124
2	CRYSTAL, SM, CX-96F, 13MHZ	CX5032SB13000F0FLJZZ	AVX	1368778	1	4.080	4.080
3	CRYSTAL, SMT, 25MHZ, 18PF	HCM49 25.000MABJ-UT	CITIZEN AMERICA	1457105	1	0.470	0.470
4	HEADER, 1ROW, 2WAY	M20-9990246	HARWIN	1022247	2	0.126	0.252
5	FLASH NAND 2GB, SMD, TSOP48	HY27UF082G2M-TP	HYNIX SEMICONDUCTOR	1182454	1	28.920	28.920
6	TERMINAL BLOCK, PCB, 2WAY	20.501M/2	IMO	9652972	1	0.270	0.270
7	PLUG, D, PCB, R/A, T&D, 9WAY	SDEX9PNTD	ITW MCMURDO	1071806	1	2.090	2.090
8	CAPACITOR, 0805, 10PF, 50V, NP0	C0805C100J5GAC	KEMET	1414654	2	0.036	0.072
9	CAPACITOR, 0805, 22PF, 50V, NP0	C0805C220J5GAC	KEMET	1414678	6	0.036	0.216
10	CAPACITOR, CERAMIC MULTILAYER	C0603C151J5GAC-TU	KEMET	1650839	1	0.078	0.078
11	CAN CONTROLLER, SPI, SMD, SOIC18	MCP2515-I/50	MICROCHIP	1292239	1	2.750	2.750
12	ETHERNET CONTROLLER 8 KB RAM, 28J160	ENC28J60/50	MICROCHIP	1084618	1	3.850	3.850
13	SUPERVISOR, OPEN DRAIN, SOT-23-3	MCP120T-300I/TT	MICROCHIP	1292233	1	0.434	0.434
14	SUPERVISORY CIRCUIT, SOT-23-3, 120	MCP120T-315I/TT	MICROCHIP	9758437	1	0.481	0.481
15	SDRAM 256MB, SMD, 48LC16, TSOP54	MT48LC16M16A2P-7E:D	MICRON	1216281	2	12.590	25.180
16	CONNECTOR, MICRO SD, HINGED	500901-0801	MOLEX	1344008	1	2.970	2.970
17	HEADER, SQUARE PIN, 0.1", 3WAY	22-27-2031	MOLEX	9731156	2	0.680	1.360
18	HEADER, SQUARE PIN, 0.1", 4WAY	22-27-2041	MOLEX	9731164	2	0.870	1.740
19	SOCKET, USB, MINI-AB, SMT	565790576	MOLEX	9786490	1	1.010	1.010
20	LED, SMD, 0805, GREEN	MCL-5270GC	MULTICOMP	1581242	2	0.147	0.294
21	LED, SMD, 0805, YELLOW	MCL-5270YC	MULTICOMP	1581241	2	0.155	0.310
22	RESISTOR, 0603, 120K	MC 0.063W 0603 1% 120K	MULTICOMP	9330526	1	0.034	0.034
23	RESISTOR, 0805, 0R0	MC 0.1W 0805 0R	MULTICOMP	9333681	2	0.034	0.068
24	RESISTOR, 0805, 100K	MC 0.1W 0805 1% 100K	MULTICOMP	9332405	2	0.034	0.068
25	RESISTOR, 0805, 100R	MC 0.1W 0805 1% 100R	MULTICOMP	9332375	8	0.034	0.272
26	RESISTOR, 0805, 10K	MC 0.1W 0805 1% 10K	MULTICOMP	9332391	8	0.034	0.272
27	RESISTOR, 0805, 120R	MC 0.1W 0805 1% 120R	MULTICOMP	9332480	2	0.034	0.068
28	RESISTOR, 0805, 220R	MC 0.1W 0805 1% 220R	MULTICOMP	9332804	1	0.034	0.034
29	RESISTOR, 0805, 240R	MC 0.1W 0805 1% 240R	MULTICOMP	9332871	1	0.034	0.034
30	RESISTOR, 0805, 330R	MC 0.1W 0805 1% 330R	MULTICOMP	9333037	5	0.034	0.170
31	RESISTOR, 0805, 33R	MC 0.1W 0805 1% 33R	MULTICOMP	9333088	2	0.034	0.068
32	RESISTOR, 0805, 390R	MC 0.1W 0805 1% 390R	MULTICOMP	9333150	1	0.034	0.034
33	RESISTOR, 0805, 3K3	MC 0.1W 0805 1% 3K3	MULTICOMP	9333045	2	0.034	0.068
34	RESISTOR, 0805, 4K7	MC 0.1W 0805 1% 4K7	MULTICOMP	9333266	1	0.034	0.034
35	RESISTOR, 2K32, 0805, 0.1% 25PPM 0.1W	MCTC0525B2321T5E	MULTICOMP	1575833	1	0.660	0.660
36	SOCKET, D, PCB, R/A, 9WAY	8LCM0095-304B-XX	MULTICOMP	1099294	1	0.490	0.490
37	CAP CER 3900PF 50V 5% C0G 0805	GRM2165C1H392JA01D	MURATA	490-3045-6-ND	1	0.167	0.167
38	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	MURATA	8820120	97	0.000	0.000
39	CAPACITOR, 1210, 10UF, 25V	GRM32MF51E106ZA01L	MURATA	9527818	10	0.320	3.200
40	ESD PROTECTION, USB 2, SMD, SSOT-6	IP4220CZ6	NXP	1506629	1	0.380	0.380
41	IC USB OTG TRANSCEIVER 24-HVQFN	ISP1301BS-T	NXP	568-1881-1-ND	1	1.880	1.880
42	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	NXP	1524648	1	17.790	17.790
43	SWITCH, SMD, SPNO	B3S-1000	OMRON ELECTRONIC COMPONENTS	177807	1	0.730	0.730
44	CAPACITOR, CASE G, 470UF, 25V	EEEFK1E471P	PANASONIC	9695800	1	1.060	1.060
45	CRYSTAL, SMD, 20.00MHZ	LF A147E	RAKON	9713352	1	0.800	0.800
46	CRYSTAL, SMD, 32.768000KHZ	LF XTAL003000	RAKON	9713220	1	1.750	1.750
47	DIODE, SCHOTTKY, 3A, 40V	STPS340U	STMICROELECTRONICS	9803548	1	0.710	0.710

48	V REG ADJ +1.25/15V, SMD, 1117	LD1117STR-E	STMICROELECTRONICS	1202824	2	1.140	2.280
49	V REG, LDO 1.2V, SMD	LD1117S12TR	STMICROELECTRONICS	1467778	1	1.020	1.020
50	AND GATE, SINGLE 2-INPUT, SMD	SN74LVCI608DBVRG4	TEXAS INSTRUMENTS	1287593	1	0.195	0.195
51	BUFFER/DRIVER/RECEIVER, SMD	SN74LVCG07DBVR	TEXAS INSTRUMENTS	1470774	1	0.440	0.440
52	CAN TRANSCIEVER, 65HVD232, SOIC8	SN65HVD232D	TEXAS INSTRUMENTS	1103107	1	2.340	2.340
53	LINE DRIVER/RECEIVER RS-232, SMD	SN75C3232PW	TEXAS INSTRUMENTS	9593128	2	5.400	10.800
54	JACK, 10/100 BASE T	6605759-1	TYCO ELECTRONICS	1284348	1	4.080	4.080
55	HEADER, BOX, STRAIGHT, 10WAY	1-1634688-0	TYCO ELECTRONICS/AMP	8395918	6	0.820	4.920
56	HEADER, BOX, STRAIGHT, 20WAY	2-1634688-0	TYCO ELECTRONICS/AMP	8395942	3	1.430	4.290
57	RESISTOR, 0805, 49.9R, 1%	CRCM080549R9FKEA	VISHAY DALE	1469935	4	0.029	0.116

Total cost: 138.273

id	description	manufacturer partid	footprint	refdes	sheet
1	HEADER, 1ROW, 2WAY	M20-9990246	M20-9990246	J102	01-power-supply
2	TERMINAL BLOCK, PCB, 2WAY	20.501M/2	20.501M/2	J101	01-power-supply
3	RESISTOR, 0805 120R	MC 0.1W 0805 1% 120R	0805	R101	01-power-supply
4	RESISTOR, 0805 220R	MC 0.1W 0805 1% 220R	0805	R102	01-power-supply
5	RESISTOR, 0805 240R	MC 0.1W 0805 1% 240R	0805	R104	01-power-supply
6	RESISTOR, 0805 330R	MC 0.1W 0805 1% 330R	0805	R103	01-power-supply
7	RESISTOR, 0805 390R	MC 0.1W 0805 1% 390R	0805	R105	01-power-supply
8	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C103, C105, C108	01-power-supply
9	CAPACITOR, 1210, 10UF, 25V	GRM32MF51E106ZA01L	1206	C102, C104, C106, C107, C109, C110, C111,	01-power-supply
10	CAPACITOR, 1210, 10UF, 25V	GRM32MF51E106ZA01L	1206	C112	01-power-supply
11	CAPACITOR, CASE G, 470UF, 25V	EEEFK1E471P	CASE G	C101	01-power-supply
12	V REG ADJ +1.25/15V, SMD, 1117	STPS340U	SMB	D101	01-power-supply
13	V REG, LDO 1.2V, SMD	LD1117STR-E	SOT1223	U102, U103	01-power-supply
14	V REG, LDO 1.2V, SMD	LD1117S12TR	SOT1223	U101	01-power-supply
15	SUPERVISOR, OPEN DRAIN, SOT-23-3	MCP120T-300I/TT	SOT23	U201	02-power-on-reset
16	SUPERVISORY CIRCUIT, SOT-23-3, 120	MCP120T-315I/TT	SOT23	U202	02-power-on-reset
17	RESISTOR, 0805 100R	MC 0.1W 0805 1% 100R	0805	R202	02-power-on-reset
18	RESISTOR, 0805 10K	MC 0.1W 0805 1% 10K	0805	R201, R203	02-power-on-reset
19	RESISTOR, 0805 4K7	MC 0.1W 0805 1% 4K7	0805	R204	02-power-on-reset
20	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C201, C202, C203	02-power-on-reset
21	SWITCH, SMD, SPNO	B3S-1000	B3S-1000	S201	02-power-on-reset
22	AND GATE, SINGLE 2-INPUT, SMD	SN74LVCI608DBVRG4	SOT-DBV	U203	02-power-on-reset
23	BUFFER/DRIVER/RECEIVER, SMD	SN74LVCG07DBVR	SOT-DBV	U204	02-power-on-reset
24	RESISTOR, 0805 100R	MC 0.1W 0805 1% 100R	0805	R301, R302, R303, R304, R305, R306, R307	03-jtag
25	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C301	03-jtag
26	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	SOT824	U001	03-jtag
27	HEADER, BOX, STRAIGHT, 20WAY	2-1634688-0	HBS-20	J301	03-jtag
28	SDRAM 256MB, SMD, 48LC16, TSOP54	MT48LC16M16A2P-7E:D	TSOP1154	U401, U403	04-sdram
29	RESISTOR, 0805 0R0	MC 0.1W 0805 0R	0805	R401, R402	04-sdram
29	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C401, C402, C403, C404, C405, C406, C407,	04-sdram
29	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C408, C409, C410, C411, C412, C413, C414,	04-sdram
29	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C415, C416, C417, C418, C419, C420, C421,	04-sdram
29	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C422, C423	04-sdram
30	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	SOT824	U001	04-sdram
31	FLASH NAND 2GB, SMD, TSOP48	HY27UF082G2M-TP	TSOP48	U502	05-flash
32	RESISTOR, 0805 10K	MC 0.1W 0805 1% 10K	0805	R501, R502	05-flash

33	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C501, C502	05-flash
34	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	501824	U001	05-flash
35	CONNECTOR, MICRO SD, HINGED	500901-0801	500901-0801	J601	06-micro-sd
36	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C601	06-micro-sd
37	CAPACITOR, 1210, 10UF, 25V	GRM32NF51E106ZA01L	1206	C602	06-micro-sd
38	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	501824	U001	06-micro-sd
39	CAPACITOR, 0805, 33PF, 100V	08051A330JAT2A	0805	C703, C706	07-ethernet
40	CRYSTAL, SMT, 25MHZ, 18PF	HCM49 25.000MABJ-UT	HCM49	X701	07-ethernet
41	ETHERNET CONTROLLER 8 KB RAM, 28J160	ENC28J60/50	S01C28	U701	07-ethernet
42	LED, SMD, 0805, GREEN	MCL-5270GC	0805	D701	07-ethernet
43	LED, SMD, 0805, YELLOW	MCL-5270YC	0805	D702	07-ethernet
44	RESISTOR, 0805 330R	MC 0.1W 0805 1% 330R	0805	R701, R703	07-ethernet
45	RESISTOR, 2K32, 0805 0.1% 25PPM 0.1W	MCT00525B2321T5E	0805	R702	07-ethernet
46	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C702, C704, C705, C707, C708, C709, C710	07-ethernet
47	CAPACITOR, 1210, 10UF, 25V	GRM32NF51E106ZA01L	1206	C701	07-ethernet
48	JACK, 10/100 BASE T	6605759-1	6605759-1	J701	07-ethernet
49	RESISTOR, 0805, 49.9R, 1%	CRCW080549R9FKEA	0805	R704, R705, R706, R707	07-ethernet
50	PLUG, D, PCB, R/A, TSD, 9WAY	SDEXPNITD	DB9 PLUG	J802	08-fs232
51	SOCKET, D, PCB, R/A, 9WAY	8LCM0095-304B-XX	DB9 SOCKET	J801	08-fs232
52	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C801, C802, C803, C804, C805, C806, C807,	08-fs232
53	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	501824	C808, C809, C810	08-fs232
54	LINE DRIVER/RECEIVER RS-232, SMD	SN75C3232PW	TS50P16	U001	08-fs232
55	CRYSTAL, SM, CX-96F, 13MHZ	CX5032SB13000F0FLJZZ	CX-96F	X902	09-oscillators
56	CAPACITOR, 0805, 10PF, 50V, NP0	C0805C100J5GAC	0805	C912, C913	09-oscillators
57	CAPACITOR, 0805, 22PF, 50V, NP0	C0805C220J5GAC	0805	C910, C911	09-oscillators
58	CAPACITOR, CERAMIC MULTILAYER	C0603C151J5GAC-TU	0605	C908	09-oscillators
59	RESISTOR, 0603 120K	MC 0.063W 0603 1% 120K	0605	R901	09-oscillators
60	RESISTOR, 0805 10K	MC 0.1W 0805 1% 10K	0805	R902	09-oscillators
61	CAP CER 3900PF 50V 5% COG 0805	GRM2165C1H92JJA01D	0805	C909	09-oscillators
62	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C901, C902, C903, C904, C905, C906, C907	09-oscillators
63	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	501824	U001	09-oscillators
64	CRYSTAL, SMD, 32.768000KHZ	LF XTAL003000	85SMX	X901	09-oscillators
65	CAPACITOR, 0805, 22PF, 50V, NP0	C0805C220J5GAC	0805	C1002, C1003	10-usb
66	SOCKET, USB, MINI-AB, SMT	565790576	565790576	J1001	10-usb
67	RESISTOR, 0805 100K	MC 0.1W 0805 1% 100K	0805	R1001, R1006	10-usb
68	RESISTOR, 0805 10K	MC 0.1W 0805 1% 10K	0805	R1002, R1003	10-usb
69	RESISTOR, 0805 33R	MC 0.1W 0805 1% 33R	0805	R1007, R1008	10-usb
70	RESISTOR, 0805 3K3	MC 0.1W 0805 1% 3K3	0805	R1004, R1005	10-usb
71	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1001, C1004, C1005, C1006, C1007, C1008,	10-usb
72	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1009	10-usb
73	ESD PROTECTION, USB 2, SMD, SSOT-6	IP4220CZ6	S0T457	U1001	10-usb
74	IC USB OTG TRANSCIEVER 24-HVQFN	ISP130IBS-T	HVQFN24	U1002	10-usb
75	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	501824	U001	10-usb
76	HEADER, SQUARE PIN, 0.1", 3WAY	22-27-2031	HSP-3	J1104, J1107	11-connectors
77	HEADER, SQUARE PIN, 0.1", 4WAY	22-27-2041	HSP-4	J1101, J1103	11-connectors
78	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1101, C1102, C1103, C1104, C1105, C1106,	11-connectors
79	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1107, C1108, C1109	11-connectors
80	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	501824	U001	11-connectors
81	HEADER, BOX, STRAIGHT, 10WAY	1-1634688-0	HBS-10	J1102, J1106, J1108, J1110	11-connectors
82	HEADER, BOX, STRAIGHT, 20WAY	2-1634688-0	HBS-20	J1105, J1109	11-connectors

81	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1201, C1202, C1203, C1204, C1205, C1206,	12-1pc3180-power
81	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1207, C1208, C1209, C1210, C1211, C1212,	12-1pc3180-power
81	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1213, C1214, C1215, C1216, C1217, C1218,	12-1pc3180-power
81	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1219, C1220, C1221	12-1pc3180-power
82	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	SOT824	U001	12-1pc3180-power
83	HEADER, 1ROW, 2WAY	M20-9990246	M20-9990246	J1303	13-can
84	CAPACITOR, 0805, 22PF, 50V, NP0	C0805C220J5GAC	0805	C1301, C1302	13-can
85	CAN CONTROLLER, SPI, SMD, SOIC18	MCP2515-I/50	SOIC18	U1301	13-can
86	LED, SMD, 0805, GREEN	MCL-5270GC	0805	D1301	13-can
87	LED, SMD, 0805, YELLOW	MCL-5270YC	0805	D1302	13-can
88	RESISTOR, 0805 10K	MC 0.1W 0805 1% 10K	0805	R1303	13-can
89	RESISTOR, 0805 120R	MC 0.1W 0805 1% 120R	0805	R1304	13-can
90	RESISTOR, 0805 330R	MC 0.1W 0805 1% 330R	0805	R1301, R1302	13-can
91	CAPACITOR, 0805, 100NF, 50V	GRM21BR71H104KA01L	0805	C1303, C1304, C1305	13-can
92	CRYSTAL, SMD, 20.00MHZ	LF A147E	HC49	X1301	13-can
93	CAN TRANSCEIVER, 65HVD232, SOIC8	SN65HVD232D	SOIC8	U1302	13-can
94	HEADER, BOX, STRAIGHT, 10WAY	1-1634688-0	HBS-10	J1301, J1302	13-can
95	MCU 32BIT ARM9 LOW POWER, SMD	LPC3180FEL320	SOT824	U001	14-spi