

**Linear Technology Corporation**  
**LTC4257CS8-1**  
**POWER-OVER-ETHERNET INTERFACE CONTROLLER**  
**ENG: DILIAN REYES (25-30)**

**BILL OF MATERIALS**  
**DC671A-2**  
**QTY- 425**  
4/9/2004  
11:17 AM

Item	Qty	Reference	Part Description	Manufacture / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>425</b>
1	4	C1,C3,C24,C25	CAP, X7R 0.01uF 200V 5%, 0805	AVX 08052C103JAT	1700
2	2	C2,C23	CAP, X7R 1000pF 2KV, 20%, 1808	AVX 1808GC102MAT	850
3	3	C4,C5,C6	CAP, X5R 100uF 6.3V, 1812	TDK C4532X5R0J107M	1275
4	2	C7,C8	CAP, X7R 0.82uF 100V 10%, 2220	AVX 22201C824KAT	850
5	1	C9	CAP, NPO 100pF 50V 10%, 0603	AVX 06035A101KAT	425
6	1	C10	CAP, Y5V 4.7uF 35V, 80%, 1206	TAIYO YUDEN, GMK316F475ZG	425
7	1	C11	CAP, X7R 0.1uF 100V 5%, 1206	AVX 12061C104JAT	425
8	2	C12,C16	CAP, X7R 0.1uF 50V 5%, 0805	AVX 08055C104JAT	850
9	1	C13	CAP, NPO 470pF 50V 10%, 0603	AVX 06035A471KAT	425
10	1	C14	CAP, X7R 1uF 25V, 10%, 1206	AVX 12063C105KAT	425
11	1	C15	CAP, ELECT., 10uF 100V, C-SANYO-CV-FS-6.3X7.7	SANYO, 100CV10FS	425
12	1	C17	CAP, X7R 3300pF 50V 10%, 0603	AVX 06035C332KAT	425
13	1	C18	CAP, NPO 1000pF 25V, 10%, 0603	AVX 06033A102MAT	425
14	1	C19	CAP, NPO 47pF 50V 10%, 0603	AVX 06035A470KAT	425
15	1	C20	CAP, X5R 0.47uF 10V, 20%, 0603	TAIYO YUDEN, LMK107BJ474MA	425
16	1	C21	CAP, X7R 0.1uF 16V 5%, 0603	AVX 0603YC104JAT	425
17	1	C22	CAP, NPO 680pF 50V 10%, 0603	AVX 06035A681KAT	425
18	2	D1,D7	DIODE ZENER, MM3Z12VT1,12V, SOD323	ON SEMI., MM3Z12VT1	850
19	2	D2,D8	DIODE,SINGLE, BAT54, SOT23	DIODES INC., BAT54	850
20	1	D3	DIODE, MMBD1505, SOT23	FAIRCHILD, MMBD1505	425
21	1	D4	DIODE, 100V,BAS21LT1, SOT23	ON SEMI., BAS21LT1	425
22	1	D5	DIODE, SCHOTTKY RECTIFIER B0540W, SOD123	DIODES INC., B0540W	425
23	1	D6	DIODE, TRANSIENT VOLTAGE SUPRES 400W,SMA-DIODE	DIODES INC. SMAJ58A	425
24	8	D9-D12,D14-D17	DIODE,Schotkky,SMA	DIODE INC., B1100	3400
25	1	D13	DIODE,SWITCHING,MMSD4148,SOD123	FAIRCHILD SEMI., MMSD4148	425
26	15	E1-E15	TESTPOINT, TURRET, .094",PAD150-094	MILL-MAX, 2501-2	6375
27	1	JP1	JMP, 2X5, .079CC, HD2X5-079	COMM CON, 2202S-10-G2	425
28	1	JP2	JMP, 1X3, .079CC, HD1X3-079	COMM-CON, 2802S-03-G1	425
29	2	SHUNTS FOR JP1 (PIN 1 & 2) & JP2 (PIN 2 & 3)	SHUNT, .079" CENTER	COMM-CON CCIJ2MM-138G	850
30	2	J1,J2	CONN, RJ-45 RIGHT ANGLE, RJ45	STEWART CONN. SYS.,SS-6488-NF-K1	850
31	1	LED1	LED, GRN	PANASONIC, LN1351-C-TR	425
32	1	L1	IND., 4.7uH,L-DO1608C	COILCRAFT, DO1608C-472	425
33	1	Q1	XSTR, NPN, MMBTA06, SOT23	VISHAY, MMBTA06	425
34	3	Q2,Q5,Q8	TRANS, NPN, MMBT3904, SOT23	DIODES, MMBT3904-7	1275
35	1	Q3	MOSFET, N-CHANNEL, Si4490DY, SO8	VISHAY, Si4490DY	425
36	1	Q4	XSTR, GENERAL PURPOSE, SOT23	MOTOROLA, MMBT2907ALT1	425

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				<b>NUMBER OF BOARDS =</b>	<b>425</b>
37	1	Q6	MOSFET, N-CHANNEL, Si7892DP, SO8-POWERPAK	VISHAY, Si7892DP	425
38	1	Q7	XSTR, PNP SWITCHING, SOT23	ZETEX FM718	425
39	1	Q9	XSTR, N-CHANNEL MOSFET, SOT23	DIODE INC., 2N7002	425
40	4	R1,R2,R30,R31	RES, 75 OHM 5% 1/10W, 0805	AAC CR10-750JM	1700
41	1	R3	RES, 510 OHM, 5%, 1/10W, 0805	AAC CR10-511JM	425
42	2	R4,R11	RES, 10K OHM 5% 1/10W, 0805	AAC CR10-103JM	850
43	1	R5	RES, 47K OHM 5% 1/16W, 0603	ACC CR16-473JM	425
44	2	R6,R8	RES, 47 OHM 5% 1/16W, 0603	AAC CR16-470JM	850
45	1	R7	RES, 33 OHM 5% 1/4W, 1206	AAC CR18-330JM	425
46	2	R9,R18	RES, 100 OHM, 5%, 1/16W, 0603	AAC CR16-101JM	850
47	1	R10	RES, 62K OHM 5% 1/10W, 0805	ACC CR10-623JM	425
48	1	R12	RES, 47 OHM 5% 1/10W, 0805	AAC CR10-470JM	425
49	1	R13	RES, 30.1K OHM 1% 1/10W, 0805	AAC CR10-3012FM	425
50	2	R14,R24	RES, 100K OHM 5% 1/10W, 0805	AAC CR10-104JM	850
51	1	R15	RES, 0.22 OHM, 1% 1/2W, 1206	THIN FILM, RL 1632R-R220-F	425
52	1	R16	RES, 330 OHM, 5%, 1/10W, 0805	AAC CR10-331JM	425
53	3	R17,R26,R28	RES, 10K OHM 5% 1/16W, 0603	AAC CR16-103JM	1275
54	1	R19	RES, 124 OHM 1% 1/10W 0805	ACC CR10-1240FM	425
55	1	R20	RES, 68.1 OHM 1% 1/10W 0805	ACC CR10-68R1FM	425
56	1	R21	RES, 45.3 OHM 1% 1/10W 0805	ACC CR10-45R3FM	425
57	1	R22	RES, 30.9 OHM 1% 1/10W 0805	ACC CR10-30R9FM	425
58	1	R23	RES, 3.65K OHM 1% 1/16W, 0603	AAC CR16-3651FM	425
59	2	R25,R27	RES, 62K OHM 5% 1/16W, 0603	ACC CR16-623JM	850
<b>60</b>	<b>0</b>	<b>R29</b>	<b>RES, 1.2M OHM, 5%, 1/10W, 0805 OPT</b>	<b>AAC CR10-125JM</b>	<b>0</b>
61	1	T1	XFMR, PB2134,TRANS-PB2134	PULSE, PB2134	425
62	1	T2	XFMR, H2019, TRANS-H2019	PULSE, H2019	425
63	1	T3	XFMR, PA0184,TRANS-PA0184	PULSE, PA0184	425
64	1	U1	IC, LTC4257CS8-1, SO8	LINEAR TECH., LTC4257CS8-1	425
65	1	U2	IC, LT1737CGN, SSOP16GN	LINEAR TECH., LT1737CGN	425
66	4	FOR 4 MTGS	SCREW, 4-40 1/4"	ANY	1700
67	4	FOR 4 MTGS	STANDOFF, #4-40 1/4"	MICRO PLASTICS 14HTSP101	1700
68	2	STENCILS FOR BOTH SIDES			2