

Parts List

Part 1: IBM ThinkPad 802.11b Wireless LAN Mini-PCI Adapter

	P/N	Q'TY	NAME	SPEC.	LACTION
1	22-149-004A				
2	1 22-149-101S	1	PACKING ASSY	FOR 802MIP	
3	2 12-0002-268Q	0.003	SHIPPING CARTON	466(L)*290(W)*220(H)M/M	
4	2 12-0004-318A	0.003	POLY BAG	850(L)*500(W)*0.05	
5	2 12-0006-028B	0.042	BLISTER	445(L)*264(W)*0.4(THK)M/M FOR MP100IM	
6	2 12-0009-407R	0.011	CARD BOARD	285(L)*216(W)*7.5(THK)M/M	
7	2 12-0009-408H	0.003	CARD BOARD	964(L)*450(W)*7.5(THK)M/M	
8	2 12-0009-4099	0.011	CARD BOARD	450(L)*268(W)*7.5(THK)M/M	
9	2 12-0018-059Z	0.039	EPE SHEET	400(L)*260(W)*2.5(THK) M/M	
10	1 22-149-2036	1	PCB ASSY.	FOR 802MIP REV.3A	
11	2 01-0016-044T	1	MYLAR	MYLAR FOR 802MIS SHIELD COVER INSIDE	
12	2 01-0016-045K	1	MYLAR	MYLAR FOR 802MIS SHIELD COVER OUTSIDE	
13	2 01-0016-0522	1	MYLAR	ACTIONTEC 802MIP MYLAR	
14	2 01-0016-057V	1	MYLAR	ACTIONTEC 802MIP MYLAR	
15	2 03-0025-0783	1	SHIELD COVER	SHIELD COVER FOR 802MIS	
16	2 22-149-606W	1	SECOND SMD ASSY.	FOR 802MIP REV.3A	
17	3 22-149-6053	1	FIRST SMD ASSY.	FOR 802MIP REV.3A	
18	4 47-0045-1ECU	1	PCB	FOR 802MIP REV.3A	
19	4 53-1300-001V	1	SMT IC	UPC2745TB-E3 SO6-65	U16.
20	4 55-0201-0132	1	SMT IC	SCORPIO SOP-16P (LUCENT)	U19.
21	4 55-0201-014U	1	SMT IC	CSP1037B SOP-16P (LUCENT)	U20.
22	4 55-0310-001P	1	SMT IC	IC RF/IF CONVERTER (ISL3685IR)	U11.
23	4 55-0310-002G	1	SMT IC	IC/RF POWER AMPLIFIER (ISL3984IR)	U12.
24	4 55-1106-002R	1	SMT IC	IF/BB CONVERTER TQFP-48 (HFA3783IN)	U9.
25	4 56-0110-023Y	2	SMT IC	IC FET SWITCH SC-70	U8.10.
26	4 56-0303-017M	1	SMT TRANSISTOR	BCP56 (CENTRAL CZT3019) SOT-223	Q3.
27	4 56-0610-005C	1	SMT VARISTOR	P3100SC DO-214AA	SID1.
28	4 56-0610-018E	0	SMT VARISTOR	P3100SB DO-214AA (TECCOR)	
29	4 56-0610-009D	1	SMT VARISTOR	P3100SX DO-214A (TECCOR)	MOV1.
30	4 57-0200-019N	1	SMT OSC	ENFVH1K2S81	U14.
31	4 57-0200-024N	1	SMT VCO	748MHZ VCO/IF (ISL3183IR)	U13.
32	4 64-1000-1411	8	SMT RES	100 OHM 5% 1/16W 0402	R25.31.35.42 .43.47-49.
33	4 64-1001-241P	2	SMT RES	1K OHM 1% 1/16W 0402	R52.71.
34	4 64-1009-141L	1	SMT RES	10 OHM 5% 1/16W 0402	R68.
35	4 64-1009-221U	2	SMT RES	10 OHM 1% 0805	R95.96.
36	4 64-1101-241L	2	SMT RES	1.1K OHM 1% 1/16W 0402	R39.44.
37	4 64-1152-241R	1	SMT RES	11.5K OHM 1% 1/16W 0402	R36.
38	4 64-1240-2413	4	SMT RES	124 OHM 1% 1/16W 0402	R58.62.66.67
39	4 64-1501-2415	2	SMT RES	1.5K OHM 1% 1/16W 0402	R37.65.
40	4 64-2001-241M	1	SMT RES	2K OHM 1% 1/16W 0402	R40.
41	4 64-2009-141H	1	SMT RES	20 OHM 5% 1/16W 0402	R73.
42	4 64-2212-242V	1	SMT RES	2.21K OHM 1% 1/16W 0402	R55.
43	4 64-2871-241T	1	SMT RES	2.87K OHM 1% 1/16W 0402	R45.
44	4 64-3000-142N	1	SMT RES	300 OHM 5% 1/16W 0402	R56.
45	4 64-3741-2418	1	SMT RES	3.74K OHM 1% 1/16W 0402	R50.
46	4 64-5360-241E	2	SMT RES	536 OHM 1% 1/16W 0402	R59.70.

47	4	64-6490-241T	1	SMT RES	649 OHM 1% 1/16W 0402	R69.
48	4	64-8259-241Y	1	SMT RES	82.5 OHM 1% 1/16W 0402	R76.
49	4	64-9099-241J	2	SMT RES	90.9 OHM 1% 1/16W 0402	R75.77.
50	4	64-9531-2413	1	SMT RES	9.53K OHM 1% 1/16W 0402	R38.
51	4	65-1005-901J	2	SMT CAP	CER 0.5PF 50V +/-0.25PF NPO 0402	C87A.132.
52	4	65-1010-9017	2	SMT CAP	CER 1.0PF 50V +/-0.25PF NPO 0402	C12.131.
53	4	65-1018-902N	1	SMT CAP	CER 1.8PF +/-0.25PF NPO 0402 50V	C82.
54	4	65-1033-901G	1	SMT CAP	CER 3.3P 50V +/-0.25PF NPO 0402	C58.
55	4	65-1047-902F	2	SMT CAP	CER 4.7P 50V +/-0.25PF NPO 0402	C49.75.
56	4	65-1068-90181	8	SMT CAP	CER 6.8P 50V +/-0.5PF NPO 0402	C28.36.48.59 .62.65-68.77- 79.83.96.97. C109.111.127
57	4	65-1100-9018	3	SMT CAP	10PF +-5% 0402 50V	C51.52.105.
58	4	65-1101-9012	4	SMT CAP	CER 100P 50V +/-10% NPO 0402	C13.85.88.94 .
59	4	65-1102-604R	4	SMT CAP	CER MONO 0.001UF 3KV K X7R 1808	C156.157.16 2.164.
60	4	65-1102-902N1	0	SMT CAP	CER 1000P 50V K X7R 0402	C23.29.50.76 .80.98.101.10 6.116.128.
61	4	65-1103-902H1	3	SMT CAP	CER 0.01U 16V K X7R 0402	C16.22.53.60 .61.63.86.92. 95.99.114. C125.130.
62	4	65-1104-106W	1	SMT CAP	CER MONO 0.1UF 50V K X7R 1206	C152.
63	4	65-1104-805T1	3	SMT CAP	CER 0.1UF 16V K X7R 0603	C19.35.70.72 .84.89.90.93. 104.112.117. C121.124.
64	4	65-1150-901K	1	SMT CAP	CER 15PF 50V +/-10% NPO 0402	C73.
65	4	65-1151-602Q	2	SMT CAP	CER MONO 150PF 3KV X7R 1808	C139.140.
66	4	65-1220-901V	1	SMT CAP	CER 22PF 50V +/-10% NPO 0402	C69.
67	4	65-1221-902G	6	SMT CAP	CER 220P 50V K X7R 0402	C39.44- 47.74.
68	4	65-1271-9010	1	SMT CAP	CER 270P 50V K X7R 0402	C126.
69	4	65-1331-9027	1	SMT CAP	CER 330PF 50V X7R K 0402	C103.
70	4	65-1473-804Y	1	SMT CAP	CER MONO 0.047UF 16V K X7R 0603	C91.
71	4	65-1474-1043	1	SMT CAP	CER MONO .47UF 25V K X7R 1206	C147.
72	4	65-1474-204X	1	SMT CAP	CER .47UF 16V X7R K 0805	C100.
73	4	65-1680-902D	2	SMT CAP	CER 68P 50V +/-10% 0402	C110.120.
74	4	65-1682-901A	1	SMT CAP	CER 6800PF 16V X7R K 0402	C107.
75	4	65-1683-801B	1	SMT CAP	CER 0.068U 16V K X7R 0603	C118.
76	4	65-1684-201A	1	SMT CAP	CER MONO 680NF 10V K X7R 0805	C123.
77	4	65-1684-2021	1	SMT CAP	0.68UF 16V Z Y5V 0805	C153.
78	4	65-2106-801D	2	SMT CAP	TANT 10UF 6.3V M (0805)	C129.161.
79	4	65-2224-1035	1	SMT CAP	TANT 0.22UF 16V K CASE A	C146.
80	4	70-1229-1015	3	SMT IND	2.2NH +/-0.3NH 300MA 0402	L7.19.20.
81	4	70-1330-101D	2	SMT IND	33NH +/-5% 600MA 0603	L12.14.
82	4	70-1330-1024	2	SMT IND	33NH +/-2% 600MA 0603	L9.10.
83	4	70-1390-101K	1	SMT IND	39NH +/-5% 500MA 0603	L6.
84	4	70-1390-1032	1	SMT IND	39NH +/-2% 600MA 0603	L5.
85	4	70-1479-1020	1	SMT IND	4.7NH +/-0.3NH 300MA 0402	L2.
86	4	70-2120-001U	2	SMT BEAD	120 OHM/100M 0402	L16.18.
87	4	70-3100-008B	1	SMT IND	BAND FILTER(MURATA:LFSN25N19C2450B)	PASS FL6.
88	4	70-3100-0092	2	SMT IND	BAND FILTER(MURATA:LFSG20N27C2450B)	PASS FL4.5.
89	4	70-3100-0101	1	SMT FILTER	374 MHZ IF SAW FILTER	FL1.
90	4	70-3100-013B	1	SMT IND	LOW PASS LILTER(MURATA:LFTC 15N19E2450B)	FL3.

91	4	74-1512-2037	1	SMT HEADER	2PIN*1 P=1.25 RA	RJ1.
92	4	74-3200-001P	2	SMT CONN	SMT ULTRA MINIATURE COAX CONNECTOR	J1.2.
93	3	52-0411-001L	1	SMT IC	128K*16 SRAM BGA	U4.
94	3	52-0607-036N	1.000 P	SMT IC	128K*8 CMOS FLASH MEMORY TSOP-32(8*14MM)	U2.
95	3	53-1100-013D	2	SMT IC	MAX8867EUK29 2.84V/150MA	U7.15.
96	3	55-0314-003K	1	SMT IC	ISL3874IK 192BGA	U1.
97	3	56-0101-011M	2	SMT DIODE	BAV99 SOT-23	D2.4.
98	3	56-0101-033P	2	SMT DIODE	CMPD2004S 240V 225MA SOT-23	D3.8.
99	3	56-0110-030G	1	SMT IC	MAX6326XR29 SC-70	U18.
100	3	56-0201-0038	2	SMT ZENER DIODE	5.6V +-5% SOT-23	D1.5.
101	3	56-0201-034C	1	SMT ZENER DIODE	BZX84C43 43V SOT-23	ZD1.
102	3	56-0301-042H	2	SMT TRANSISTOR	MMBTA42LT1 NPN 300V SOT-23	Q4.6.
103	3	56-0301-0439	1	SMT TRANSISTOR	MMBTA92LT1 PNP 300V SOT-23	Q5.
104	3	56-0312-001B	1	SMT TRANSISTOR	MMBT2907AWT1 SOT-323	Q2.
105	3	57-0200-020N	1	SMT OSC	44.000MHZ F4106	U6.
106	3	64-0000-121K	3	SMT RES	0 OHM 5% 0805	R22.1.22.23.
107	3	64-0000-1414	4	SMT RES	0 OHM 5% 0402 0.06W	R5.24.46.82.
108	3	64-1000-1319	1	SMT RES	100 OHM 5% 0603	R42A.
109	3	64-1000-1411	3	SMT RES	100 OHM 5% 1/16W 0402	R17.18.51.
110	3	64-1002-1215	1	SMT RES	10K OHM 5% 0805	R1.
111	3	64-1002-141Q	7	SMT RES	10K OHM 5% 0402	R11.23.26.33 .41.99.46.
112	3	64-1002-221Z	1	SMT RES	10.0K OHM 1% 0805	R81.
113	3	64-1005-131G	1	SMT RES	10M OHM 5% 0603	R2.
114	3	64-1203-131K	1	SMT RES	120K OHM 5% 0603	R104.
115	3	64-1212-2416	1	SMT RES	12.1K OHM 1% 1/16W 0402	R32.
116	3	64-1500-131Q	1	SMT RES	150 OHM 5% 0603	R63.
117	3	64-1501-2415	1	SMT RES	1.5K OHM 1% 1/16W 0402	R15.
118	3	64-1502-121M	2	SMT RES	15K OHM 5% 0805	R92.93.
119	3	64-1912-241F	2	SMT RES	19.1K OHM 1% 1/16W 0402	R10.14.
120	3	64-2150-221F	1	SMT RES	215 OHM 1% 0805	R91.
121	3	64-2201-1210	1	SMT RES	2.2K OHM 5% 0805	R6A.
122	3	64-2203-1419	1	SMT RES	220K OHM 5% 0402	R3.
123	3	64-3011-2425	1	SMT RES	3.01K OHM 1% 1/16W 0402	R12.
124	3	64-3602-1314	1	SMT RES	36.0K OHM 5% 0603	R97.
125	3	64-4020-211Z	1	SMT RES	402 OHM 1% 1206	R64.
126	3	64-4700-1411	3	SMT RES	470 OHM 5% 1/16W 0402	R4.13.16.
127	3	64-4709-142C	1	SMT RES	47 OHM 5% 1/16W 0402	R84.
128	3	64-4871-211A	6	SMT RES	4.87K OHM 1% 1206	R57.60.61.98 .102.103.
129	3	64-5600-1412	1	SMT RES	560 OHM 5% 1/16W 0402	R9.
130	3	64-6190-2414	1	SMT RES	619 OHM 1% 1/16W 0402	R28.
131	3	64-7879-220S	1	SMT RES	78.7 1/10W 1% 0805	R84A.
132	3	64-9760-241N	1	SMT RES	976 OHM 1% 1/16W 0402	R30.
133	3	65-1100-801F	1	SMT CAP	CER MONO 10PF 50V J NPO 0603	C148.
134	3	65-1100-9018	1	SMT CAP	10PF +-5% 0402 50V	C6.
135	3	65-1102-902N	1	SMT CAP	CER 1000P 50V K X7R 0402	C27.
136	3	65-1103-802P	1	SMT CAP	CER MONO 0.01UF 50V K X7R 0603	C159.
137	3	65-1103-902H	1	SMT CAP	CER 0.01U 16V K X7R 0402	C17.
138	3	65-1104-801S	3	SMT CAP	CER 0.1UF 25V Z Y5V 0603	C13A.144. 145.
139	3	65-1104-805T2	6	SMT CAP	CER 0.1UF 16V K X7R 0603	C1.4.7.8.10.1 4.15.20.21.25 .30-33. C40- 42.57.71.81.1 08.113.122.1 33.135. C137.
140	3	65-1105-801M	1	SMT CAP	CER MONO 1UF 25V M Y5V 0603	C55A.

141	3	65-1123-201T	2	SMT CAP	CER MONO 0.012UF 50V K X7R 0805	C57A.160.
142	3	65-1182-2015	2	SMT CAP	CER MONO 1800 PF 250V K X7R 0805	C143.151.
143	3	65-1182-202X	1	SMT CAP	CER MONO 1800PF 50V K X7R 0805	C154.
144	3	65-1220-8011	2	SMT CAP	CER MONO 22PF 50V J NPO 0603	C12A.15A.
145	3	65-1220-901V	1	SMT CAP	CER 22PF 50V +/-10% NPO 0402	C24.
146	3	65-1221-902G	1	SMT CAP	CER 220P 50V K X7R 0402	C3.
147	3	65-1222-802H	1	SMT CAP	CER MONO 2200PF 50V K X7R 0603	C56.
148	3	65-1223-1045	1	SMT CAP	0.022UF 250V M X7R 1206	C142.
149	3	65-1224-205K	1	SMT CAP	CER .22U 16V K X7R 0805	C71A.
150	3	65-2106-801D	7	SMT CAP	TANT 10UF 6.3V M (0805)	C9.34.38.43. 102.134.136.
151	3	70-1562-1026	1	SMT IND	560NH 10% 330MA 0603	L1.
152	3	70-2200-007J	2	FERRITE BEAD	1000Z @100MHZ 0805	FB1.2.
153	3	70-2200-042W	3	SMT BEAD	30 OHM/100M 0805	L3.17.21.
154	2	45-0400-114M	1	CRYSTAL	32.768KHZ CL:12.5PF 20PPM 2*6M/M	X1.
155	2	45-0400-120D	1	CRYSTAL	24.576MHZ AT-38 50PPM 32PF	Y2.

Part 2: IBM Bluetooth Daughter Card

Item	Quantity	Reference	Part
1	1	B1	HHM1517
2	1	C1	3.3pF +/-0.25pF
3	1	C2	12pF +/-0.25pF
4	2	C3,C17	22pF
5	1	C4	470pF
6	5	C5,C6,C7,C8,C10	10nF
7	1	C9	10uF 10V
8	1	C11	100nF
9	2	C13,C12	10u/10V
10	1	C14	4u7 ceramic
11	1	C15	1uF ceramic
12	1	C16	1.5pF
13	2	C25,C19	47pF
14	2	C20,C27	10pF
15	3	C21,C23,C24	1nF
16	2	C26,C22	2.2pF
17	1	FL1	Murata Bandpass Filter
18	173	Via[2-175]	CON1
19	1	JP1	HEADER 5x2/SM
20	1	J1	HIROSE DF12-40DS-0.5V(81)
21	1	J2	MOLEX 53780-0390
22	1	J3	HIROSE U,FL-R-SMT(10)F
23	1	L1	10uH
24	3	L2,L3,L4	3.3nH
25	2	L6,L5	6.8nH
26	1	R1	3R3
27	1	R2	1K
28	2	R3,R12	150R
29	1	R4	110K
30	1	R5	1K5
31	2	R7,R6	33R
32	1	R8	4K7 1%
33	1	R9	3K3 1%
34	1	R10	4K7
35	1	R11	10K
36	1	TH1	KTY81-150
37	2	TP2,TP1	TP1/0.6mm
38	1	U1	BlueCore 01
39	1	U2	SST39VF800A
40	1	U3	MAX1857
41	2	U4,U6	XM2400LB-PM0601
42	1	U5	UPG154TB
43	1	Y1	16MHz