

Am186CC ISDN Router Reference Design Revised: Friday, April 09, 1999
Revision: 2.1

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Bill Of Materials May 24,1999 14:50:08

<u>Item</u>	<u>Quantity</u>	<u>Reference</u>	<u>Part</u>
1	4	CBX1,CAX1,CBX2,CAX2	4700pF
2	2	CDCR_1,CDCR_2	0.022uF
3	2	CDC_1,CDC_2	0.56uF
4	2	CHP1,CHP2	0.047uF
5	2	CRT1,CRT2	1.0uF
6	9	CR1,CR2,CR3,CR4,CR5,CR6,CR7,CR8,CR9	LED SOT-23
7	2	CSLEW1,CSLEW2	0.33uF
8	2	CT1,CT2	100pF
9	4	C2,C3,C12,C13	27pF
10	46	C5,C8,C9,C10,C11,C16,C17,C29,C30,C31,C33,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C45,C46,C47,C48,C50,C51,C52,C53,C57,C61,C62,C63,C64,C65,C66,C67,C74,C76,C90,C91,C98,C99,C110,C116	0.1uF
11	2	C6,C7	22uF
12	2	C15,C14	680pF
13	1	C18	1.0uF
14	10	C19,C20,C21,C24,C26,C28,C32,C56,C60,C89	0.01uF
15	2	C22,C27	3300pF
16	1	C23	820pF
17	1	C25	1.0uF
18	1	C49	30pF
19	4	C54,C113,C114,C119	10uF
20	2	C55,C59	0.001uF
21	1	C58	4.7uF
22	6	C69,C70,C71,C72,C111,C112	22pF
23	1	C73	1.0uF
24	6	C75,C81,C82,C83,C84,C85	22uF
25	2	C77,C120	10uF
26	5	C78,C121,C137,C138,C139	330uF
27	2	C80,C118	0.1uF
28	1	C86	3300pF
29	1	C87	0.22uF
30	1	C88	220pF

31	8 C92,C93,C94,C95,C96,C97,C146, C147	1000pF
32	17 C122,C123,C124,C125,C126,C127,C128,C129,C130,C131,C132,C133,C134,C135,C136,C140,C145	0.1uF
33	4 C141,C142,C143,C144	1000pF
34	4 D1,D2,D3,D4	DIODE BAV70A
35	1 D5	DIODE
36	4 D6,D9,D10,D11	DIODE
37	1 D7	DIODE ZENER
38	1 D8	DIODE ZENER
39	1 D12	DIODE
40	2 D13,D14	DIODE ZENER
41	1 D15	SCHOTTKY RECTIFIER
42	2 FB1,FB2	FB
43	2 FB3,FB4	FB
44	2 FR1,FR2	FUSE RESISTOR
45	1 F1	FUSE
46	1 F2	2A
47	2 JP1,JP5	HEADER 3
48	1 L1	10uH
49	1 L2	33uH
50	3 P1,P2,P3	RJ45A
51	2 P4,P5	RJ11
52	1 P6	BARREL CON
53	1 P7	CONNECTOR DB9
54	1 P9	USB CON
55	1 P10	COND60
56	2 Q2,Q1	TN0200T
57	4 RDCR11,RDCR12,RDCR21,RDCR22	20.0K
58	6 RSGH1,RSGH2,RDC1_1,RDC1_2,RDC2_1,RDC2_2	56.2K
59	2 RD1,RD2	22.1K
60	2 RRT1_1,RRT1_2	511K
61	2 RRT2_1,RRT2_2	12.1K
62	4 RSLEW1,RRX_1,RSLEW2,RRX_2	150K
64	4 RT1B1,RT1A1,RT2B1,RT2A1	124K
66	5 R1,R2,R3,R63,R65	270
67	26 R4,R5,R7,R9,R10,R11,R12,R13,R14,R15,R16,R39,R40,R41,R49,R50,R54,R93,R95,R98,R100,R101,R151,R156,R157,R168	10K
68	1 R6	1K
69	1 R8	5
70	6 R17,R44,R45,R47,R48,R57	100K
71	2 R18,R20	3.6K
72	2 R19,R22	100

73	3 R21,R105,R106	22.6
74	1 R23	22.6
75	4 R24,R25,R26,R27	68
76	1 R28	17.8K
77	1 R29	10K
78	2 R30,R32	137
79	2 R31,R33	1.1K
80	1 R34	820
81	1 R35	2.2M
82	1 R36	21
83	2 R37,R38	16.9
84	2 R43,R46	300K
86	2 R58,R59	13.7K
87	1 R60	487
88	1 R61	3.32K
89	1 R62	10K
90	1 R67	1.5K
91	2 R68,R69	36
92	12 R80,R159,R160,R161,R162, R163,R164,R165,R167,R169, R171,R172	0
93	1 R92	0
94	2 R103,R104	2K
95	26 R107,R108,R109,R110,R111,R11 2,R113,R114,R115,R116,R117,R 118,R119,R120,R121,R122,R123, R125,R126,R127,R129,R131,R13 2,R133,R134,R135	56
96	2 R124,R128	33
97	2 R137,R139	0
98	8 R140,R141,R142,R143,R144,R14 5,R173,R174	100
99	1 R150	100k
100	1 SW1	RESET
101	1 T1	Flyback Transformer
102	1 U1	AM186CC
103	1 U2	Am79C961A
104	1 U3	74ACT04
105	1 U4	LAN TRANSFORMER
106	1 U5	SERIAL EPROM DIP
107	1 U6	AM79C32A PLCC
108	1 U7	S Transformer
109	1 U8	PE65554
110	1 U9	6N139
111	1 U10	LH1465AB
112	1 U11	T7237A PLCC
113	1 U12	U Transformer
114	1 U13	SM6T6V8CA
115	1 U14	P2300SB
116	2 U15,U18	Am79R79

117	2 U16,U19	TISP61089
118	1 U20	Am79C031
119	2 U21,U22	DTMF M-8870-01
120	1 U24	Am29F800 TSOP
121	1 U25	DRAM 256X16 SOJ
122	1 U27	64Kx16 SRAM
123	1 U29	TLC7733ID
124	1 U30	M5V REGULATOR
125	1 U32	LDO-3.3
126	1 U33	SLIC REGULATOR
127	1 U34	OP AMP
128	1 U35	SP207HB
129	1 U43	PAL26V12 PLCC-28
130	1 U44	MIC4576
131	2 U46,U45	LC03-6
132	1 U47	74ACT08
133	1 U48	74ACT125
134	1 X1	20.000MHz
135	1 X2	12.228MHz
136	1 X3	15.36011MHz
137	1 X4	3.58MHz
138	1 X5	20.000MHz
139	1 X6	24.000 MHz

Do Not Install

<u>Item</u>	<u>Quantity</u>	<u>Reference</u>	<u>Part</u>
63	5	RSGL_1,RSGL_2,R42,R166, R170	*0
65	3	R136,R138,R_UFS	*0
85	7	R51,R52,R53,R94,R96,R97,R99	*10K

<u>Part Spec</u>	<u>PCB Footprint</u>
+/- 10%, X7R, 100V	805
+/- 10%, X7R, 100V	805
+/- 10%, X7R, 100V	1206
+/- 10%, X7R, 100V	1206
+/- 10%, X7R, 100V	2225
Lumex SSL-LX15IGC-RP-TR	SOT-23
+/- 10%, X7R, 50V	805
+/- 10%, X7R, 100V	805
+/- 10%, COG, 50V	805
+/- 10%, X7R, 100V	805

Tantalum, C CASE, 16V	C-CASE
+/- 10%, X7R, 50V	805
Phillips 2222 370 75105	TH-2
+/- 10%, X7R, 50V	805

Kemet C1206C332F5RAC	1206
Kemet C0805C821J5GAC	805
Phillips 2222 373 41105, or	TH-2
Vitramon VJ9253Y105KXPM	
+/- 10%, COG, 50V	805
Tantalum, C CASE, 16V	C-CASE
+/- 10%, X7R, 50V	805
Tantalum, C CASE, 16V	C-CASE
+/- 10%, X7R, 50V	805
Tantalum, A CASE, 16V	A-CASE
AVX TPSE226M035R0300	E CASE
+/- 10%, Y5V, 25V	1812
AVX TPSE337M010#100	E-CASE
+/- 10%, X7R, 50V	805
AVX 12065C104MATMA	1206
AVX 12063C224MATMA	1206
AVX 08055C221MATMA	805

+/- 10%, X7R, 50V 805

+/- 10%, X7R, 16V 603

+/- 10%, X7R, 16V 603

Philips BAV70A SOT-23

ROHM RB160L-40 SMA

General Semi ES2D DO-214AA

General Semi SMZJ3797B DO-214AA

ROHM RSZ5228B SOT-23

ROHM RB400D SOT-23

ROHM RSZ5234B SOT-23

International Rectifier 30BQ015 SMT-2

MURATA BLM31P500SPB 1206

MURATA BLM21A121SPB 805

Microelectronic Modules Corp. TH-6

L11A050AA

Raychem TR600-150 TH-2

Bussmann 3216FF-2.5A 1206

AMP 87224-3 TH-3

Coiltronics CTX10-2-52 SMT

Coiltronics UP2B-330 SMT-2

AMP 555153-1 TH-12

AMP 555154-2 TH-10

KYCON KLD-0202-BC TH-3

AMP 745781-5 TH-9

AMP 787780-1 TH-4

AMP 104069-7 SMT-2x30

Temic TN0200T SOT-23

+/- 1%, 1/10W 805

+/- 1%, 1/10W 805

+/- 1%, 1/10W 805

+/- 1%, 1/10W 805

+/- 1%, 1/10W 805

+/- 1%, 1/10W 805

+/- 1%, 1/10W 805

+/- 5%, 1/10W 805

+/- 5%, 1/10W 805

+/- 5%, 1/10W 805

+/- 5%, 1/8W 1206

+/- 5%, 1/10W 805

+/- 1%, 1/4W 1206

+/- 1%, 1/8W 1206

+/- 1%, 1/2W	1210
+/- 1%, 1/8W	1210
+/- 5%, 1/10W	805
Dale CRCW12061783F	1206
Dale CRCW1206103J	1206
Dale CRCW12061370F	1206
Dale WSC-2	SMT-2
+/- 5%, 1/10W	805
Dale CRCW1206225J	1206
+/- 1%, 1/10W	1206
Dale CRCW120616R9FF	1206
+/- 1%, 1/10W	805
+/- 1%, 1/4W, 150V	1206
+/- 1%, 1/4W, 150V	1206
+/- 1%, 1/4W, 150V	1206
+/- 5%, 1/4W, 150V	1206
+/- 5%, 1/10W	805
+/- 5%, 1/10W	603
+/- 5%, 1/10W	805

KOA RM73Z2B, 5%, 1W	1206
+/- 1%, 1/4W	1206
+/- 5%, 1/10W	603

+/- 5%, 1/10W	603
+/- 5%, 1/10W	603
+/- 5%, 1/10W	603

+/- 5%, 1/10W	805
C+K KT11P2SM	SMT-4
Beckman HM00-98519	SMT
AM186CC	PQFP-160
Am79C961A KC	PQFP-132
74ACT04	SOIC-14
Pulse E2003	SMT-16
National NM93C56N	DIP-8
Am79C32A JC	PLCC-44
Pulse PE-65799	SMT-16
Pulse PE65554	TH-8
Siemens 6N139	DIP-8
Lucent LH1465AB	DIP-8
Lucent T7237A- -ML-DT	PLCC-44
Pulse T4008	TH-10
SGS-Thomson SM6T6V8CA	SMB
Teccor P2300SB, or SGS-	DO-214
Thomson SMP100-200	
Am79R79-1JC	PLCC-32

Power Innovations TISP61089	SOIC-8
Am79C031JC	PLCC-32
Teltone M-8870-01SM	SOIC-18
Am29F800BT-70EC	TSOP-48
Mosel Vitelic V53C16258HK40	SOJ-40
Samsung KM6161000BLT-5L	TSOP II-44
TI TLC7733ID	SOIC-8
Micrel MIC4575-5.0BU	TO-263-5
Micrel MIC5209-3.3BS	SOT-223
Micrel MIC2171BU	TO-263
Micrel MIC6211BM5	SOT-23-5
Sipex SP207HBCT	SOIC-28
PAL26V12H-15JC	PLCC-28
Micrel MIC4576-5.0BT	TO-263-5
Semtech LC03-6	SO-8
74ACT08	SOIC-14
74ACT125	SOIC-14
Ecliptek EC-20.000M-ITR	HC-49
Ecliptek EC-12.228M-ITR	HC-49
Saronix SRX5144	HC-49
Ecliptek EC2-3.579545M-ITR	HC-49
Ecliptek EC2-20.000M-CL150	TH-2
Ecliptek EC2-24.000M-CL150	TH-2

Part Spec

+/- 5%, 1/10W

+/- 5%, 1/10W

+/- 5%, 1/10W

PCB Footprint

805

603

805