

Bill of Materials				
Norbit Part no.		31046		
Revision no.		5		
Part name		AIS TX		
Date		2002-06-20		
POS	Part#	Geom	Qty	Description
1	NAT_LP2980IM5-3.0	smd_sot23-5	1	Analog, 3.0V 50mA, National
2	TEX_TPS767D318PWP	TPS767D318PWP	1	Analog, 3V3_1V8, Texas
3	MCL_JPS-3-1	bh292	1	Analog, 3Way 5-300MHz, Mini-Circuits
4	MOT_MC78M05CDT	smd_to252	1	Analog, 78M05, Motorola
5	SIE_PMB2208R	smd_sot355-1	1	Analog, MIX+MOD, Siemens
6	MCL_MAV-11SM	RRR137	1	Analog, MMIC amplifier 50-1000MHz, Mini-Circuits
7	TEX_LM224D	smd_so14	2	Analog, Opamp Quad SO14, Texas
8	NAT_LMC7101BIM5	smd_sot23-5	9	Analog, Opamp rail to rail, National
9	PHI_UMA1018M	smd_sot266-1	1	Analog, VHF/UHF_SYNTH, Philips
10	MEC_M57710-A	M57710-A	1	Analog, VHF PWR Module 30W, Mitsubishi Electric
11	SME_MC1610V0R70R05M50	smd_1610	6	Capacitor, 0.7p, SMIED, 0.05p
12	PHI_223878016649	smd_0805	47	Capacitor, 100n, Philips, 10%
13	PHI_223886115101	smd_0805	9	Capacitor, 100p, Philips, 5%
14	PHI_223858016627	smd_0805	2	Capacitor, 10n, Philips, 10%
15	PHI_223886115109	smd_0805	26	Capacitor, 10p, Philips, 5%
16	PHI_223886115159	smd_0805	6	Capacitor, 15p, Philips, 5%
17	PHI_223858016614	smd_0805	49	Capacitor, 1n, Philips, 10%
18	PHI_223886115158	smd_0805	4	Capacitor, 1p5, Philips, 0.25p
19	MUR_GRM42_6X7R225K10PT85	smd_1206	15	Capacitor, 2.2u, Murata, 10%
20	PHI_223886115229	smd_0805	4	Capacitor, 22p, Philips, 5%
21	PHI_223886115228	smd_0805	4	Capacitor, 2p2, Philips, 0.25p
22	PHI_223886115331	smd_0805	4	Capacitor, 330p, Philips, 5%
23	PHI_223886115339	smd_0805	1	Capacitor, 33p, Philips, 5%
24	PHI_223886115338	smd_0805	8	Capacitor, 3p3, Philips, 0.25p
25	PHI_2222861x5398	smd_0805	1	Capacitor, 3p9, Philips, 0.25p
26	MUR_GRM42_6X5R475K16	smd_1206	2	Capacitor, 4.7u, Murata, 10%

Sheet1

27	PHI_223886115479	smd_0805	1	Capacitor, 47p, Philips, 5%
28	PHI_223858016623	smd_0805	5	Capacitor, 4n7, Philips, 10%
29	PHI_223886114568	smd_0805	2	Capacitor, 5p6, Philips, 0.25p
30	PHI_223886114688	smd_0805	4	Capacitor, 6p8, Philips, 0.25p
31	NC_0805_C	smd_0805	8	Capacitor, NC, none, 0.25p
32	HAG_09_03_378_2901	v78abc_2	1	Connector, Euro 78pin+2solder, Harting
33	2x7pin	smd_2x7pin_2.54	1	Connector, NC
34	2pin_NC	1x2_2.54	1	Connector, NC
35	SUH_85sma-50-0-1	sma_90deg	4	Connector, PCB_90deg, thru, Suhner
36	EVE_EL19-21UGC	smd_0603_polar	2	Diode, green, Everlight
37	MIS_UM9401F	UM9401F	2	Diode, High_Power_PIN, Microsemi
38	HP_HSMP3892T31	smd_sot23	2	Diode, PIN_dual_switch, HP
39	EVE_EL19-21SRC	smd_0603_polar	3	Diode, red, Everlight
40	PHI_BAT54	smd_sot23	2	Diode, Schottky, Philips
41	PHI_BAS16	smd_sot23	4	Diode, SOT 23 Si Hi_Sp, Philips
42	PHI_BBY39	smd_sot23	2	Diode, varactor_double, Philips
43	LIT_R451005	SMF_fuse	1	Fuse, 5A, Littelfuse
44	COI_0805CS-101XJBC	smd_0805	5	Inductor, 100nH, Coilcraft, 5%
45	COI_0805CS-220XJBC	smd_0805	2	Inductor, 22nH, Coilcraft, 5%
46	COI_1206CS-391XJBC	smd_1206	6	Inductor, 390nH, Coilcraft, 5%
47	COI_B10T	smd_mini_spring_b	6	Inductor, 43nH, Coilcraft, 5%
48	TOK_E558ANA-100054	MC152	5	Inductor, 61nH (44NB), Toko, 20%
49	PHI_74LVC573ADB	smd_sot339-1	3	logic, 8 bits latch, Philips
50	TEX_TLV1572ID	smd_so8	1	logic, ADC, Texas
51	TEX_TLV5638ID	smd_so8	1	logic, DAC, Texas
52	TEX_TLV5606ID	smd_so8	1	logic, DAC, Texas
53	TEX_TMS320VC5402PGE100	S-PQFP-G144	1	logic, DSP fixed point, Texas
54	PHI_74HCU04D	smd_so14	1	logic, HEX_INV_UNBUFF, Philips
55	PHI_74LV04D	smd_so14	1	logic, Hex inverter, Philips
56	PHI_74LV32D	smd_so14	1	logic, OR gate, Philips
57	NB_45027_v3	box_12x16_57pin	4	Mecanix, 1.2X1.6 inc, Norbit
58	STM_M95256WMW6	smd_so8_wide	1	memory, 256byte EEPROM, STMicroelectronics
59	PHI_232273091002	smd_0805	3	Resistor, 0R, Philips, 1%
60	PHI_232273461004	smd_0805	17	Resistor, 100K, Philips, 1%
61	PHI_232273461001	smd_0805	13	Resistor, 100R, Philips, 1%
62	PHI_232273461003	smd_0805	64	Resistor, 10K, Philips, 1%
63	PHI_232273461009	smd_0805	11	Resistor, 10R, Philips, 1%

Sheet1

64	PHI_232273461504	smd_0805	9	Resistor, 150K, Philips, 1%
65	PHI_232273461501	smd_0805	15	Resistor, 150R, Philips, 1%
66	PHI_232273461002	smd_0805	14	Resistor, 1K, Philips, 1%
67	PHI_232273461005	smd_0805	2	Resistor, 1M, Philips, 1%
68	PHI_232273462203	smd_0805	5	Resistor, 22K, Philips, 1%
69	PHI_232273462202	smd_0805	16	Resistor, 2K2, Philips, 1%
70	PHI_232273463309	smd_0805	5	Resistor, 33R, Philips, 1%
71	PHI_232273464704	smd_0805	2	Resistor, 470K, Philips, 1%
72	PHI_232273464701	smd_0805	2	Resistor, 470R, Philips, 1%
73	PHI_232273464709	smd_0805	6	Resistor, 47R, Philips, 1%
74	PHI_232273464702	smd_0805	17	Resistor, 4K7, Philips, 1%
75	PHI_232273465609	smd_0805	4	Resistor, 56R, Philips, 1%
76	PHI_232273466803	smd_0805	6	Resistor, 68K, Philips, 1%
77	PHI_232273466809	smd_0805	2	Resistor, 68R, Philips, 1%
78	NC_0805_R	smd_0805	8	Resistor, NC, none, 1%
79	TEK_CRS06SQ390FS1	smd_CRS06_21.5mm	1	Resonator, 390 MHz, Tekelec Temex
80	BI_23GR10KT7	smd_pot_23G	6	Rpot, 10k, BI,
81	NB_32023	NB32023	1	transformer, 1:3+5,B62152-A8-X17, Norbit
82	PHI_BFR93A	smd_sot23	3	Transistor, NPN_1GHz, Philips
83	PHI_BFG97	smd_sot223	1	Transistor, NPN, Philips
84	PHI_BC847B	smd_sot23	5	Transistor, NPN, Philips
85	SIL_SI4425DY	smd_so8	1	Transistor, P MOSFET,30V, Siliconix
86	PHI_BC857B	smd_sot23	4	Transistor, PNP, Philips
87	MOT_MTD20N06HDL	smd_to263ab	1	Transistor, TMOS E-FET 60V 20A, Motorola
88	TQ_TQ3330S11.0592MHz+-10/+-10	smd_HC49	1	Xtal, 11.0592MHz, Tele Quarz, 10ppm
89	SAS_TOS1300VPM4DKB	smd_TOS1300	1	Xtal, VC-TCXO 13MHz, Samsung, +- 2.5ppm

Reference
U17
U24
U31
U30
U13
U15
U5 U20
U1 U3 U6 U8 U9 U10 U11 U12 U14
U2
U16
C49 C50 C101 C102 C200 C202
C3 C6 C10 C11 C12 C13 C14 C17 C18 C20 C21 C66 C70 C82 C84 C143 C153 C159 C162 C163 C164 C165 C166 C167 C168 C171 C172 C174 C175 C176 C179 C180 C181 C182 C183 C184 C196 C199 C203 C204 C215 C216 C217 C220 c4 c219 c221
C71 C73 C78 C81 C133 C150 C151 C152 C154 C16 C24
C32 C40 C41 C44 C47 C51 C53 C55 C60 C64 C67 C72 C76 C77 C86 C87 C91 C94 C95 C96 C98 C100 C104 C105 C145 C210
C42 C54 C92 C99 C132 C137
C5 C15 C19 C22 C23 C27 C33 C34 C35 C36 C37 C38 C39 C46 C56 C57 C58 C59 C65 C80 C85 C103 C108 C110 C112 C113 C114 C115 C116 C123 C124 C125 C126 C138 C139 C140 C141 C142 C155 C156 C170 C178 C197 C198 C201 C206 C207 C208 C212
C29 C93 C97 C147
C1 C25 C177 C185 C186 C187 C188 C189 C190 C191 C192 C193 C218 c222 c223
C7 C8 C129 C130
C28 C31 C209 C211
C30 C45 C148 C149
C26
C43 C52 C62 C75 C131 C134 C250 C251
C69
C9 C169

C109
C111 C127 C128 C135 C136
C63 C144
C48 C88 C106 C107
C61 C68 C74 C79 C83 C89 C90 C146
J4
J3
J1
J5 J6 J7 J8
D3 D29
D11 D14
D7 D8
D1 D2 D4
D5 D6
D9 D10 D12 D13
D27 D28
F1
L12 L13 L14 L22 L23
L11 L21
L1 L2 L3 L4 L5 L24
L6 L7 L8 L9 L10 L30
L25 L26 L27 L28 L29
U23 U25 U29
U21
U19
U22
U26
U4
U27
U28
M2 M3 M4 m1
U18
R30 R134 R216
R55 R87 R88 R91 R92 R93 R94 R95 R96 R109
R111 R142 R204 R221 R222 R227 R260
R49 R54 R68 R77 R108 R114 R115 R117 R124
R125 R126 R181 R182
R1 R4 R8 R9 R11 R13 R14 R15 R16 R17 R21
R22 R24 R25 R26 R28 R29 R36 R40 R57 R58
R62 R63 R64 R80 R104 R118 R122 R140 R141
R159 R160 R171 R172 R173 R174 R175 R176
R179 R180 R202 R203 R207 R208 R209 R217
R223 R224 R228 R231 R234 R235 R236 R242
R243 R244 R245
R6 R42 R43 R44 R48 R61 R65 R83 R84 R106
R241

R35 R85 R86 R89 R90 R107 R110 R112 R113
R31 R32 R98 R100 R102 R195 R196 R197 R198 R199 R200 R201 R212 R230 R263
R10 R18 R19 R73 R81 R103 R123 R127 R128 R138 R177 R178 R183 R240
R229 R253
R52 R143 R145 R167 R169
R27 R38 R39 R41 R45 R46 R59 R69 R70 R76 R78 R79 R120 R144 R184 R210
R5 R7 R20 R33 R211
R220 R226
R71 R75
R23 R66 R67 R119 R136 R254
R37 R47 R53 R60 R121 R129 R130 R131 R133 R135 R161 R162 R168 R170 R255 R256 R261
R72 R74 R97 R99
R34 R50 R51 R56 R163 R164
R213 R214
R2 R3 R12 R105 R137 R139 R215 R225
X3
R82 R101 R116 R132 R165 R166
TR1
Q2 Q3 Q4
Q1
Q5 Q7 Q8 Q13 Q16
Q21
Q6 Q14 Q15 Q17
Q9
X2
X4