

GES SINGAPORE PTE LTD
BILL OF MATERIAL / PARTLIST

Form No. ENG-03/3

GES P/N : 53275501

DESCRIPTION : CARD, MAGMA SWITCH CARD, X755-A

REV 00

24/02/98

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
1	41000226	LOCK HEADER 8 x 1 2mm STRAIGHT(TIN)	1	CN3	
2	41000220	LOCK HEADER, 14 x 2 2mm R/A(TIN)	1	CN1	
3	41000410	CONNECTOR, 41 PIN CONTACTS SMT 1mm PITCH(TIN)	1	CN2	
4	46100003	LED, 5X2 RECTANGULAR GREEN	1	D2	
5	44000101	SWITCH, TACT SWITCH 6x6mm 4PIN DIP	4	S1,S2,S3,S4	
6	48497551	PCB, MAGMA SWITCH BOARD X755-A	1		
7	60100130	PLASTIC PART, MAGMA LED HOLDER 94V-2 2.3mm	1	D2	
8	69210009	ESD SHIELDING BAG 6"x8"	1		

END

PREPARED BY : _____
 (Name/Signature/Date)

CHECKED BY (Name/Signature/Date) :

_____ _____ _____ _____
 QME PMC Marketing (if applicable) Others (if applicable)

GES SINGAPORE PTE LTD

BILL OF MATERIAL / PARTLIST

Form No. ENG-03/3

GES P/N : 53280401

DESCRIPTION : CARD, MAGMA CONTROL CARD X804

REV 00

24/02/98

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
1	41000224	LOCK HEADER, 5x 2 2mm R/A(TIN)	1	CN1	
2	41000223	LOCK HEADER, 7 x 1 2mm R/A(TIN)	1	CN2	
3	41000225	LOCK HEADER, 5 x 1 2mm R/A(TIN)	2	CN3,CN5	
4	41000222	LOCK HEADER, 4 x 1 2mm R/A(TIN)	2	CN4,CN6	
5	41000411	CONNECTOR, 2PIN SHROUDED HEADER SMT 8 PITCH(TIN)	1	CN7	
6	32510131	TANT CAP 1uF 16V 5%	1	C1	
7	31020643	CHIP CAP 20pF 16V 5% 0603	2	C2,C3	
8	33733115	E-CAP 330uF 16V 20% 0.1" RADIAL	4	C4,C7,C8 C9	
9	32647103	TANT CAP 47uF 16V 5% CASE D	2	C5,C13	
10	31410643	CHIP CAP 0.1uF 16V 5% 0603	3	C6,C10,C14	
10&	31410649	CHIP CAP, 0.1uF 16V Y5V +-20% 0603			
11	33710214	E-CAP 100uF 25V 20% 0.1" RADIAL	1	C11	
12	31033763	CHIP CAP 33pF/3KV NPO 5% 1808 (PHILIPS)	1	C12	
13	31422118	CHIPCAP 220nF 50V 5% 1206	1	C15	
14	32622103	TANT CAP 22uF 16V 10% CASE D	1	C16	
14&	32622203	TANT CAP, 22uF 20V 10% CASE D			
15	47000531	DIODE, SMB/002-214 SCHOTTKY SK13R 1A 30V SMT	1	D1	
16	41000321	PIN HEADER, 2 x 1 2mm PITCH THRU' HOLE(TIN)	3	JP1,JP2,JP3	
17	41000341	PIN HEADER, 2 x 1, 2mm PITCH-JUMPER	3	JP1,JP2,JP3	
18	43110141	INDUCTOR, 68uH +/- 20% 1kHz 1.5A SMT	3	L1,L3,L5	
19	43500056	TRANSFORMER, BACKLIGHT INVERTER 5W CEPH198	1	L2	
20	47000071	TRANSISTOR, FMMT718 PNP SOT 23	1	Q1	
21	47000072	TRANSISTOR, 2SC2873-Y NPN PW-MINI	2	Q2,Q3	
22	47000009	TRANSISTOR 2N3904 NPN SOT23	1	Q4	
23	22521002	CHIP RES 10K OHM 1/16 W 5% 0603	4	R1,R2,R3,R9	
24	22510391	CHIP RES 390 OHM 1/16 W 5% 0603	1	R4	
25	22510621	CHIP RES 620 OHM 1/16 W 5% 0603	1	R5	
26	22520471	CHIP RES 4.7K OHM 1/16 W 5% 0603	1	R6	
27	22820101	CHIP RES 1K OHM 1/16W 5% 0603	2	R7,R8	
28	12200121	MICROCONTROLLER, TMP87PM36N 8MHz SDIP42 OTP	1	U1	
29	16000451	REGULATOR IC, KA78M05RTM 5V DPAK SS	1	U2	
30	16000201	POWER AMP, 2x6W STEREO AUDIO AMP TDA1517	1	U3	
31	45000040	CRYSTAL, 8MHz HC-49S 50PPM 20pF	1	Y1	
32	48498041	PCB, MAGMA CONTROLLER BOARD X804A	1		
33	69210009	ESD SHIELDING BAG 6"x8"	1		
34	54000300	LABEL, BLANK BAR CODE 60x12mm	1		
35	48497571	LABEL, BLANK ROUND DIMENSION 9mm	1		

END

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GES SINGAPORE PTE LTD

BILL OF MATERIAL / PARTLIST

GES P/N : 70700101

Form No. ENG-03/3

DESCRIPTION : MONITOR, 12.1" DATAMINI MAGMA VGA LCD

REV 00

24/02/98

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
1	46200031	LCD MODULE, NEC TFT LCD NL8060BC31-09	1		
2	53275701	BOARD, MAGMA MAIN BOARD X757	1		
3	53280401	CARD, MAGMA CONTROL CARD X804-A	1		
4	53275501	CARD, MAGMA SWITCH CARD, X755-A	1		
5	52100131	POWER SUPPLY, ENG H56PS-25 120DC 2A	1		
6	50300001	POWER CORD, 200cm +-5cm BLACK WIRE 10A 125V US	1		
7	41000703	CONNECTOR, 3P DC PWER JACK LD0205 2.0mm(TIN)	1		
8	41000903	CONNECTOR, EARPHONE JACK LJE0350 3.5mm	1		
9	40100147	CABLE ASSEMBLY, 15P REAR PANEL TO MAIN L=12cm	1		
10	40100148	CABLE ASSEMBLY, 15P VGA BOTH END DSUB MALE L=2M	1		
11	40100141	CABLE ASSEMBLY, MAGMA 4P CTRL TO MAIN PWR L=24cm	1		
12	40100142	CABLE ASSEMBLY, MAGMA 5P MAIN/B TO CTL L=5cm	1		
13	40100143	CABLE ASSEMBLY, MAGMA OSD SW TO CTRL L=19cm	1		
14	40100144	CABLE ASSEMBLY, MAGMA REAR PANEL TO CTRL L=8cm	1		
15	40100145	CABLE ASSEMBLY, MAGMA 7P SWITCH/B L=13cm	1		
16	40100146	CABLE ASSEMBLY, MAGMA 28 P 3CONN L=10 & L=13cm	1		
17	60100121	LCD 12 FRONT CASE	1		
18	60100123	LCD 12 INFRO RED WINDOW	1		
19	60100122	LCD 12 FUNCTION KEY	1		
20	60300108	M3L6 PAN HEAD TAPPING	2		
21	60200121	LCD12 METEL MAIN-B FOR SAGE	1		
22	60300201	M3L5 TRUSS HEAD MACHINE	16		
23	60200123	LCD 12 METAL CONNECTOR BOARD	1		
24	60300105	M3L10 PAN HEAD TAPPING	2		
25	60100124	LCD 12 BACK CASE	1		
26	60100126	LCD 12 AXLE COVER	2		
27	60300110	M3L10 PAN HEAD MACHINE	2		
28	60100125	LCD 12 ROTATE COVER	2		
29	60100127	LCD 12 AXLE	1		
30	60100128	LCD 12 PLASTICS BASE	1		
31	60200122	LCD 12 METAL BASE	1		
32	60300109	M4L8 PAN HEAD MACHINE	6		
33	60301101	DOUBLE ADHESIVE TAPE BLACK RUBBER FOOT	4		
34	60300106	M3L12 PAN HEAD TAPPING	6		
35	60300501	F/M STAND(THREADED STANDOFF)	4		
36	60300503	SCREW, HEX5.5 M/F STANDOFF BRASS NICKEL M3XF8.	2		
37	60200124	METAL PART, MAGMA REDUCE EMI COVER	1		
38	60300107	SCREW, PAN PHILIP HEAD M2XS TAPPING	2		
39	00010475	CUSHION, INSTAPAK L&R CUSHION 127x240x392 cm	1		
40	69010011	BOX, CARTON 12" LCD DISPLAY 433x403x244 cm	1		
41	69210066	PLASTIC BAG, MAGMA LCD MONITOR 515x650x0.08mm	1		
42	60100131	CAP COVER	4		
43	54000300	LABEL, BLANK BAR CODE 60x12mm	1		
44	60300004	M3 Nut	2		
45	53270202	A5 RH 28.5X28.5X13.7	1		
46	54300171	MANUAL, MAGMA USER MANUA L MARCH 1998	1		

END

PREPARED BY : Agnes Cheah / / 28th May 1998
(Name/Signature/Date)

CHECKED BY (Name/Signature/Date) :

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
40	22110151	CHIP RES, 150 OHM 1/8W 5% 1206	41	R21,R22,R23, R25,R26,R27, R28,R30,R31, R32,R33,R34, R35,R36,R37, R38,R39,R40, R42,R43,R44, R45,R46,R48, R49,R50,R51, R52,R53,R54, R55,R56,R57, R58,R59,R60, R61,R62,R63, R64,R65	
41	22230681	CHIP RES, 68K OHM 1/10W 5% 0805	1	R77	
42	22100101	CHIP RES, 10 OHM 1/8W 5% 1206	1	R83	
43	22240131	CHIP RES, 130K OHM 1/10W 5% 0805	1	R88	
44	22210201	CHIP RES, 200 OHM 1/10W 5% 0805	3	R105,R111, R117	
45	22510391	CHIP RES, 390 OHM 1/16W 5% 0603	3	R108,R114, R120	
46	22200752	CHIP RES, 75 OHM 1/10W 1% 0805	3	R109,R115, R121	
47	22200331	CHIP RES, 33 OHM 1/10W 5% 0805	1	R122	
48	22514702	CHIP RES, 4.7K OHM 1/16W 1% 0603	1	R131	
49	22201202	CHIP RES, 120 OHM 1/10W 1% 0805	1	R132	
50	22220151	CHIP RES, 1.5K OHM 1/10W 5% 0805	1	R133	
51	22202002	CHIP RES, 200 OHM 1/10W 5% 0805	1	R134	
52	20110681	RES, 680 OHM, 1/6W 5% (AXIAL) CARBON FILM	1	R135	See Pg 5 of 5
53	20120121	RES, 1.2K OHM, 1/6W 5% (AXIAL) CARBON FILM	1	R136	See Pg 5 of 5
54	11300101	EEPROM, X25020S 586X8 SERIAL SOIC 8 PIN	1	U1	
55	11300102	EEPROM, X24C01AS 1KX8 SERIAL SOIC 8 PIN	1	U2	
56	15000251	TTL IC, 74HCT125D 150MIL SOIC 14PIN	2	U3,U8	
57	12200101	MICROCONTROLLER, SIEMENS80C32 44PIN PLCC 12MHZ	1	U4	
58	15000252	TTL IC, 74HCT139D 150MIL SOIC 16PIN	1	U5	
59	15000253	TTL IC, 74HCT373D 150MIL SOIC 20PIN	1	U6	
60	11500171	EPROM, 64K x 8 120ns PLCC32 AT27C512R-12JC	1	U7	
61	14000401	CHIPSET, SAGE CHEETAH-KLS1 95MHZ 3.3V 240P TQFP	1	U9	
62	17000209	CLOCK GENERATOR, ICS3161A-0CW 16PIN 300MIL SOIC	1	U10	
63	11600021	VRAM, 256K x 16 60ns 150MIL QSOP-64 SAMSUNG	4	U11,U12,U13, U14	
64	15000352	TTL IC, IDT74FCT164245TPV 295MIL SSOP 48PIN	3	U15,U17,U18	
65	47000026	TRANSISTOR, XS-SI9953DY FOR 316	1	U16	
66	17003001	ADC, TDA8714/7 80MSPS 8BIT SO24 300MIL	3	U19,U22,U24	
67	16000045	OP AMP, MAX4126ESA 8PIN 150MIL 8 SO/12Max	1	U20	

GES SINGAPORE PTE LTD
BILL OF MATERIAL / PARTLIST

Form No. ENG-03/3

GES P/N : 53275701

DESCRIPTION : BOARD, MAGMA MAIN BOARD X757

REV 01

23/04/98

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
1	31033613	CHIP CAP, 33pF 50V NPO 5% 0603	4	C1,C2,C4,C5	
2	32510131	TANT CAP, 1uF 16V 20%	1	C3	
3	31210616	CHIP CAP, 1nF 50V X7R 10% 0603	14	C6,C27,C28, C41,C42,C48, C50,C60,C61, C72,C169,C170, C171,C172	
4	31210317	CHIP CAP, 0.01uF 50V 5% 0805	42	C7,C26,C29, C37,C40,C43, C47,C51,C59, C62,C69,C71 C73,C89,C98, C99,C110, C112,C114 C117,C119, C121,C123, C126,C128, C130,C132, C134,C136, C138,C141, C143,C145, C157,C159, C161,C163, C164,C165, C166,C167, C168	
5	31410319	CHIP CAP, 100nF 50V +80% -20% 0805	81	C8,C9,C10,C11 C12,C13,C14, C15,C16,C17, C18,C19,C20, C21,C22,C23, C25,C30,C32, C35,C36,C39, C44,C46,C52, C53,C54,C58, C63,C65,C66, C67,C68,C70, C74,C75,C78, C80,C81,C83, C84,C85,C87.	

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
				C88,C90,C91, C94,C97,C98, C101,C106, C107,C109, C111,C113, C115,C118, C120,C122, C124,C127, C129,C131, C133,C135, C137,C139, C142,C144, C146,C148, C149,C150, C151,C152, C153,C154, C155,C158, C160,C162	
6	32610101	TAN CAP, 10uF 16V 10% CASEB	11	C24,C31,C34, C38,C45,C49, C57,C64,C79, C82,C86	
7	31047314	CHIP CAP 47pF 50V 5% 0805	1	C33	
8	31222614	CHIP CAP, 2200pF 50V NPO 10% 0603	1	C55	
8&	31222616	CHIP CAP, 2200pF 50VX7R +-10% 0603			
9	31122613	CHIP CAP, 220pF 50V NPO 5% 0603	1	C56	
9&	31122616	CHIP CAP, 220pF 25V X7R +-20% 0603			
10	32622103	TANT CAP, 22uF 16V 10% CASE D	9	C77,C105	
10&	32622203	TANT CAP, 22uF 20V 10% CASE D		C108,C116, C125,C140, C147,C156	
11		TANT CAP, 100uF 16V	4	C76,C92,C93 C95	
12					
13	33710114	E CAP, 100uF 16V 20% 0.1" RADIAL	1	C100	
14	33733115	E CAP, 330uF 16V 20% 0.1" RADIAL	3	C102,C103 C104	
15	47000581	DIODE, 1N4148 FAST SWITCHING 75V 150mA SMT SOT23	9	D1,D2,D3,D4, D5,D6,D7,D8 D9	
16	47000005	DIODE, 1N4001 RECTIFIER AXIAL	1	D10	
17	47000521	DIODE, 1N5821TR SCHOTTKY 3A 30V AXIAL	1	D11	
18	43200011	FERRITE BEAD, 47OHM@ 100MHz 1206	13	FB1,FB2,FB3, FB4,FB5,FB6, FB7,FB8,FB9, FB10,FB11,	

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
19	42000152	FUSE, 6.88 x 3.152 SMF 3A 12V	2	FB12,FB13	
20	41000029	PIN HEADER, 3X1 0.1"	2	F2,F1	
21	43110161	INDUCTOR, 22uH +-20% 0.12 OHM 1kHz 180mA SMT	3	J1,J2	
22	43110181	INDUCTOR, 100uH +-10% 0.26 OHM 500mA AXIAL	1	L1,L2,L3	
23	43110182	INDUCTOR, 100uH +- 20% 0.058 OHM 1kHz 3A LE TYPE	1	L5	
24	41000224	LOCK HEADER, 5PIN x 2 R/A-2mm-TIN	1	L6	
25	41000225	LOCK HEADER, 5PIN x 1 R/A-2mm-TIN	2	P1,P4	
26	41000220	LOCK HEADER, 14PIN x 2 R/A-2mm-TIN	1	P3	
27	41000221	LOCK HEADER, 7PIN x 2 R/A-2mm-TIN	1	P5	
28	41000222	LOCK HEADER, 4PIN x 1 R/A-2mm-TIN	1	P6	
29	47000009	TRANSISTOR, 2N3904 SMT SOT-23	1	P9	
30	23206663	CHIP NET RES, 66 OHM ISOLATED 16P 5% 682A220TR4	2	Q1,Q2	
31	23131063	CHIP NET RES, 10K OHM BUSED 16P 5% 682B103TR4	2	RP1,RP2	
32	22230102	CHIP RES, 10K OHM 1/10W 1% 0805	1	RP3	
			11	R1,R2,R11, R12,R13,R15, R29,R47,R101, R102,R103	
33	22210101	CHIP RES, 100 OHM 1/10W 5% 0805	8	R3,R4,R5,R6, R7,R104,R110, R116,R16,R17	
34	22210471	CHIP RES,470 OHM 1/10W 5% 0805	3	R8,R9,R69	
35	22200221	CHIP RES, 22 OHM 1/10W 5% 0805	36	R66, R67, R68,R70, R71,R72,R74, R76,R79,R80, R81,R82,R84, R85,R86,R87, R89,R90,R91, R92,R93,R94 R95, R96,R97, R98,R99,R100, R106,R107, R112,R113, R118,R119	
36	22110151	CHIP RES, 150 OHM 1/8W 5% 1206	41	R21,R22,R23, R25,R26,R27, R28,R30,R31, R32,R33,R34, R35,R36,R37, R38,R39,R40, R42,R43,R44, R45,R46,R48, R49,R50,R51, R52,R53,R54, R55,R56,R57, R58,R59,R60.	

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
37	22230511	CHIP RES,51K OHM 1/10W 5% 0805	2	R61,R62,R63, R64,R65	
38	22230472	CHIP RES, 47K OHM 1/10W 1% 0805	1	R21,R41	
39	22231002	CHIP RES,100K OHM 1/10W 1% 0805	10	R73	
40	22230681	CHIP RES, 68K OHM 1/10W 5% 0805	1	R75,R78,R125, R126,R127, R128,R129, R130,R123, R124,R10	
41	22100101	CHIP RES,10 OHM 1/8W 5% 1206	1	R77	
42	22240131	CHIP RES, 130K OHM 1/10W 5% 0805	1	R83	
43	22210201	CHIP RES, 200 OHM 1/10W 5% 0805	1	R88	
44	22510391	CHIP RES, 390 OHM 1/16W 5% 0603	3	R105,R111, R117	
45	22200752	CHIP RES, 75 OHM 1/10W 1% 0805	3	R108,R114, R120	
46	22200331	CHIP RES,33 OHM 1/10W 5% 0805	3	R109,R115, R121	
47	22514702	CHIP RES, 4.7K OHM 1/16W 1% 0603	1	R122	
48	22201202	CHIP RES, 120 OHM 1/10W 1% 0805	1	R131	
49	22220151	CHIP RES,1.5K OHM 1/10W 5% 0805	1	R132	
50	22202002	CHIP RES, 200 OHM 1/10W 5% 0805	1	R133	
51	22210681	CHIP RES, 820 OHM 1/10W 5% 0805	1	R134	
52	22220121	CHIP RES, 1.2K OHM 1/10W 5% 0805	1	R135	
53	33810117	E CAP 1000uF 16V 20% 0.1" RADIAL	1	R136 R137	
54	11300101	EEPROM, X25020S 586X8 SERIAL SOIC 8 PIN	1	U1	
55	11300102	EEPROM, X24C01AS 1KX8 SERIAL SOIC 8 PIN	1	U2	
56	15000251	TTL IC, 74HCT125D 150MIL SOIC 14PIN	2	U3,U8	
57	12200101	MICROCONTROLLER, SIEMENS80C32 44PIN PLCC 12MHZ	1	U4	
58	15000252	TTL IC, 74HCT139D 150MIL SOIC 16PIN	1	U5	
59	15000253	TTL IC, 74HCT373D 150MIL SOIC 20PIN	1	U6	
60	11500171	EPROM, 64K x 8 120ns PLCC32 AT27C512R-12JC	1	U7	
61	14000401	CHIPSET, SAGE CHEETAH-KLS1 95MHz 3.3V 240P TQFP	1	U9	
62	17000209	CLOCK GENERATOR, ICS3161A-OCW 16PIN 300MIL SOIC	1	U10	
63	11600021	VRAM, 256K x 16 60ns 150MIL QSOP-64 SAMSUNG	4	U11,U12,U13, U14	
64	15000352	TTL IC, IDT74FCT164245TPV 295MIL SSOP 48PIN	3	U15,U17,U18	
65	47000026	TRANSISTOR, XS-SI9953DY FOR 316	1	U16	
66	17003001	ADC, TDA8714/7 80MSPS 8BIT SO24 300MIL	3	U19,U22,U24	
67	16000045	OP AMP, MAX4126ESA 8PIN 150MIL 8 SO/uMax	1	U20	
68	16000411	REGULATOR IC, LM431ACM3 2.5V ZENER SHU SOT-23	1	U21	
69	17000221	CLOCK GENERATOR, ICS1522M 24PIN SOIP	1	U23	
70	16002001	VIDEO AMP, LM1203BN 100MHz 600MIL 28PIN DIP	1	U25	
71	16000451	REGULATOR IC, KA78M05RTM 5V DPAK SAMSUNG	1	U26	
72	16000046	OP AMP, MAX4129ESD 14PIN 150MIL 14 SO	1	U27	

Item	GES Part No	Part Description	Qty	Reference Designator	Remarks
73	14000171	CHIPSET, MAXIM MAX534ACEE DAC 10MHz 16P QSOP 5V	1	U28	
74	16000402	REGULATOR IC, LM2576S-ADJ SWITCHING SMT TO-263	1	U29	
75	16000352	REGULATOR IC, EZ1587CM 1.3-4.0V 3A TO-220	1	U30	
76	45000024	CRYSTAL, 11.0592MHZ 49U3H 50PPM 30pF	1	Y1	
77	45000028	CRYSTAL, 14.318MHZ 49U3H 50PPM 18PF	1	Y2	
78	41000185	IC SOCKET, 32-PIN PLCC	1	U7	
79	48491571	PCB, MAGMA MAIN BOARD X757-A	1		
80	41000066	SHUNT, 0.1" 30u	2	J1,J2	
81	69210013	ESD SHIELDING BAG 9"x12"	1		
82	54000300	LABEL, BLANK BAR CODE 60x12mm	1		
83	48497571	LABEL, BLANK ROUND DIMENSION 9mm	1		

END

SOF5

PREPARED BY : _____
 (Name/Signature/Date)

CHECKED BY (Name/Signature/Date) :

_____ QME _____ FMC _____ Marketing (if applicable) _____ Others (if applicable)