

Copyright

©2006 by Samsung Electronics Co., Ltd.

All rights reserved.

This manual may not, in whole or in part, be copied, photocopied, reproduced, translated, or converted to any electronic or machine readable form without prior written permission of Samsung Electronics Co., Ltd.

GSM26KU/GSM32KU/GSM40KU Service Manual

First edition April 2006.

Printed in Korea.

Trademarks

Samsung is the registered trademark of Samsung Electronics Co., Ltd.

GSM26KU/GSM32KU/GSM40KU and MacMaster Cable Adapter are trademarks of Samsung Electronics Co., Ltd.

Macintosh, Power Macintosh are trademarks of Apple Computer, Inc.

All other trademarks are the property of their respective owners.

Contents

1	Precautions	1-1
1-1	Safety Precautions	1-1
1-2	Servicing Precautions	1-2
1-3	Electrostatically Sensitive Devices (ESD) Precautions	1-2
1-4	Installation Precautions	1-3
2	Product specifications	2-1
2-1	Fashion Feature	2-1
2-2	Specifications	2-2
2-3	Option Specification	2-6
3	Alignments and Adjustments	3-1
3-1	General Alignment Instruction	3-1
3-2	Factory Mode Adjustments	3-2
3-3	White Balance - Calibration	3-9
3-4	White Ratio (Balance) Adjustment	3-10
3-5	Servicing Information	3-11
4	Troubleshooting	4-1
4-1	No Power	4-1
4-2	No Video (Analog PC Signal)	4-2
4-3	No Video (HDMI - Digital Signal)	4-4
4-4	No Picture (Tuner_CVBS)	4-6
4-5	No Picture (Tuner DTV TS)	4-8
4-6	No Picture (Video CVBS)	4-10
4-7	No Picture(S-Video Y/C)	4-11
4-8	No Picture(Component1, 2 : 480i, 480p, 720p, 1080i[Y, Pb, Pr])	4-13
4-9	No Sound	4-15
5	Exploded View and Parts List	5-1
5-1	LN-S2641D Exploded View	5-1
5-2	LN-S2641D Parts list	5-2
5-3	LN-S3241D Exploded View	5-3
5-4	LN-S3241D Parts list	5-4
5-5	LN-S4041D Exploded View	5-5
5-6	LN-S4041D Parts list	5-6
6	Electrical Parts List	6-1
6-1	LN-S2641D Parts List	6-1
6-2	LN-S3241D Parts List	6-23
6-3	LN-S4041D Parts List	6-45
7	Block Diagram	7-1

Contents

8	Wiring Diagram	8-1
8-1	Wiring Diagram	8-1
9	Schematic Diagrams	9-1
9-1	Power Schematic Diagram	9-1
9-2	Stand by Micom Schematic Diagram	9-2
9-3	STV8257 Diagram	9-3
9-4	STA323W Schematic Diagram	9-4
9-5	TUNER_SPLITTER Schmetic Diagram	9-5
9-6	AV_IN_OUT_1 Schmetic Diagram	9-6
9-7	AV_IN_OUT_2 Schmetic Diagram	9-7
9-8	PC_HDMI_INPUT Schmetic Diagram	9-8
9-9	SVP_PX Schmetic Diagram	9-9
9-10	LBE Schmetic Diagram	9-10
9-11	SVP_PX_POWER Schmetic Diagram	9-11
9-12	SVP_PX_DDR Schmetic Diagram	9-12
9-13	LAKE_I2C_GPIO_USB_UART_ETC Schmetic Diagram	9-13
9-14	LAKE_I2SINOUT_YCbCr_OUT Schmetic Diagram	9-14
9-15	LAKE_DDR Schmetic Diagram	9-15
9-16	LAKE_FLASH_DEBUG Schmetic Diagram	9-16
9-17	LAKE_POWER Schmetic Diagram	9-17
10	Operating Instructions and Installation	10-1
10-1	Front	10-1
10-2	Connection Panel	10-2
10-3	Remote Control	10-4
11	Disassembly and Reassembly	11-1
11-1	Disassembly	11-1
11-2	Reassembly	11-5
12	PCB Diagram	12-1
12-1	Main PCB Diagram	12-1
12-2	Power Inverter	12-2
13	Circuit Descriptions	13-1
13-1	Block description	13-1
14	Reference Infomation	14-1
14-1	Technical Terms	14-1
14-2	Pin Assignments	14-4
14-3	Timing Chart	14-6
14-4	Panel Description	14-10
