[T_CON BLOCK]

[USER CONNECTOR]

[WAVY I/F BLOCK-4PIN]

[SPREAD SPECTRUM]

[AI I/F BLOCK]

[EEPROM BLOCK]

[CONTROL SIGNAL BLOCK]

[RESET BLOCK]

[ASIC OPTION BLOCK]

[CONTROL-SOURCE RIGHT CONNECTOR]

[CONTROL-SOURCE LEFT CONNECTOR]

** REFERENCE :
R : ~R100
C : ~C102

CONTROL SCHEMATIC(1/2)

LC320WXN-SAC1-731

6871L-1478A

(6870C-0195A)

[POWER BLOCK]

[P-VCOM BLOCK]

[3.3V --> 1.8V BLOCK]

US1
TPS65162

US2
RT9164A-18PG

U9
X95311_OPEN

RVCOM_FB
VCOM_R
VCOM_L
LVCOM_FB
P_VCOM
VR_VCOM

R50 2.2KOHM1/16W
R54 80HM 1/16W
R55 12KOHM1/16W
R58 80HM 1/16W
R59 10KOHM1/16W
R60 OPEN OPEN
R61 OPEN OPEN
R63 80HM 1/16W

C50 1UF 25V

R51 56KOHM 1/16W
R56 15KOHM 1/16W
R57 7.5KOHM 1/16W
C51 270PF 50V
C52 25V 10UF
C53 25V 10UF
C54 25V 10UF
C59 10UF 25V
C56 50V 0.1UF
R53 6.8KOHM 1/16W

VDD

D11 B340A
L2 22UH 1.5A
C57 0.1UF 50V
C58 10UF 25V
C110 10UF 25V
VDD_O

VDD
R64 560KOHM 1/16W
R72 91KOHM 1/16W
C107 2.2NF 50V
C106 4.7NF 50V

C64 68PF 50V
R75 3KOHM 1/16W

FLK
DPM
VGH FBP

VGH_M
R76 80HM 1/16W

R69 80HM 1/16W
C62 22NF 25V
C63 0.1UF 50V
EN1
DPM
C65 1NF 50V
FREQ
C66 1UF 25V

P12V
R65 5.6KOHM 1/16W
R68 OPEN OPEN
R71 5.6KOHM 1/16W
R74 80HM 1/16W
EN1
FREQ

P12V
C67 25V 10UF
C68 25V 10UF
C69 25V 10UF
C70 25V 10UF
C109 25V 10UF
C108 10UF

VCC
C61 OPEN OPEN
R66 OPEN OPEN
R70 OPEN OPEN
R67 OPEN OPEN
R73 OPEN OPEN
SDA
SCL
P_VCOM
R77 OPEN OPEN
R79 OPEN OPEN
R82 OPEN OPEN
R78 OPEN OPEN
C71 OPEN OPEN
C72 OPEN OPEN

R88 OPEN OPEN
VGH
R81 200OHM 1/16W
D15 BAV99-7-F
C73 1UF 25V
C74 1UF 25V
VDD_O
R83 80HM 1/16W
C77 1UF 25V
R99 80HM 1/16W
C78 0.1UF 25V
L1 22UH 1.5A
VCC
R84 9.1KOHM 1/4W
C75 10UF 35V
R86 75KOHM 1/16W
R88 7.5KOHM 1/16W
R87 12KOHM 1/16W
FBP
D12 B340A
C83 390PF 50V
R90 4.4KOHM 1/16W
R91 OPEN OPEN
C79 10V 10UF
C80 10V 10UF
C81 10V 10UF
C82 50V 0.1UF
R89 5.1KOHM 1/16W
R92 1KOHM 1/16W
R93 470OHM 1/16W

C111 10NF 50V

VGL
R98 200OHM 1/16W
C105 10V 22UF
R94 9100HM 1/16W
R1002 100KOHM 1/16W
D18 BAV99-7-F
C84 1UF 25V
C85 1UF 25V
R96 1/16W 51KOHM
R97 30KOHM 1/16W
C104 OPEN OPEN
C91 0.22UF 10V

VCC
1.8V 1.8V
C92 10UF 10V
C93 10UF 10V

CONTROL SCHEMATIC (2/2)
LC320WXN-SAC1-731
6871L-1478A
(6870C- 0195A)

[H_2DOT] : Inversion Select Pin
H : Horizontal 2-Dot inversion Enable
L : Horizontal 2-Dot inversion Disable
[PWRC1/PWRC2] : Power Select Pin
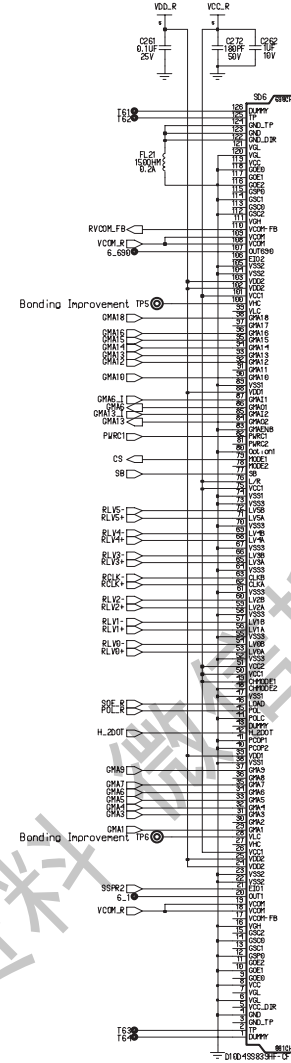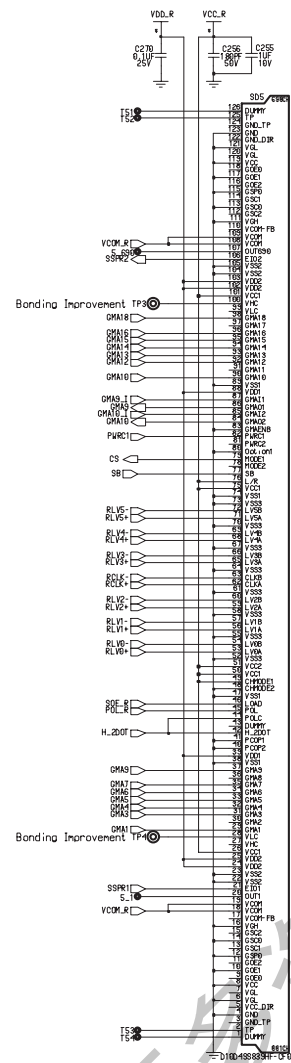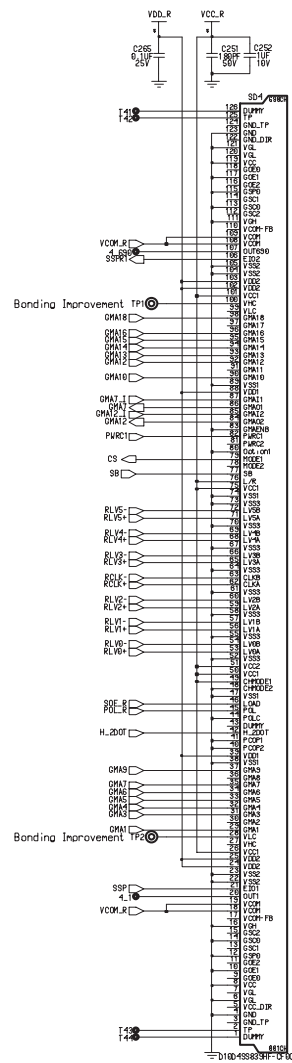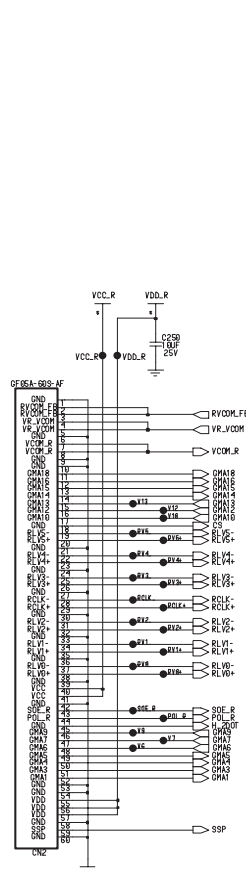H/H : Maximum
H/L : Medium Large
L/H : Medium Small
L/L : Minimum
[MODE1/MODE2] : Output operation control
H/H : Hi-z Mode
H/L : Charge Sharing
L/H : Charge Sharing (Default)
L/L : Pre-charge Mode
[PCOP1/PCOP2] : Pre-charge width select (690ch)
H/H : 160CLK
H/L : 100CLK
L/H : 80CLK
L/L : 0CLK (Default)
[SB] : Mini-LVDS Input
H : DS- --> D0+
L : D0+ --> DS-

[Default Option]
L/R   : H (right shift , S1->S690)
POLC : Connected in H_2DOT (H:Normal operation. L:POL signal is inverted)
RxBIAS : H (bias current High power)
CHMODE1/CHMODE2 : Output channel number select (H/L : 690)
Option1 : L (Normal Mode)
Option2 : H (Normal Mode)
GMAENB1 : L (Enable)
PWRC1 : L