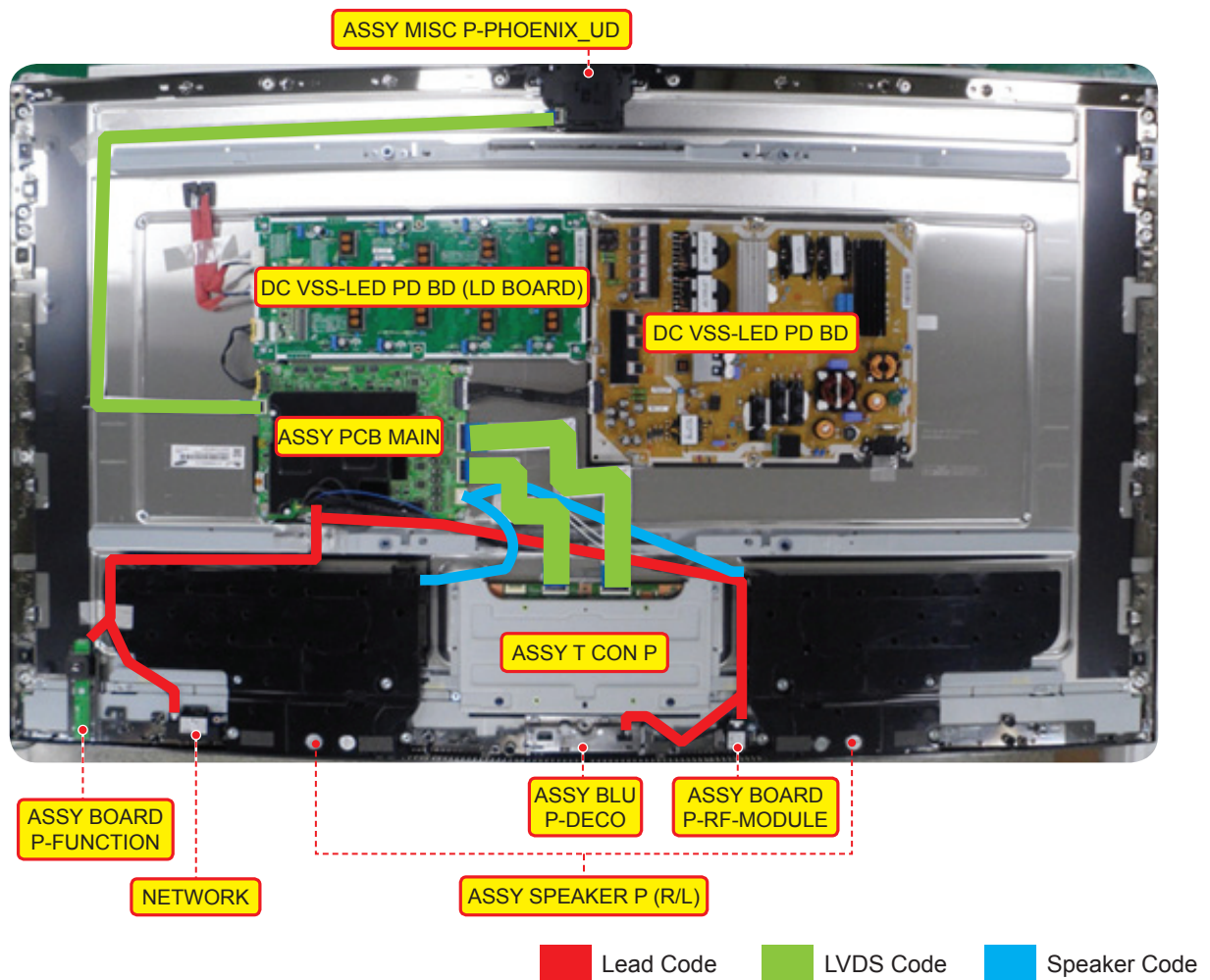


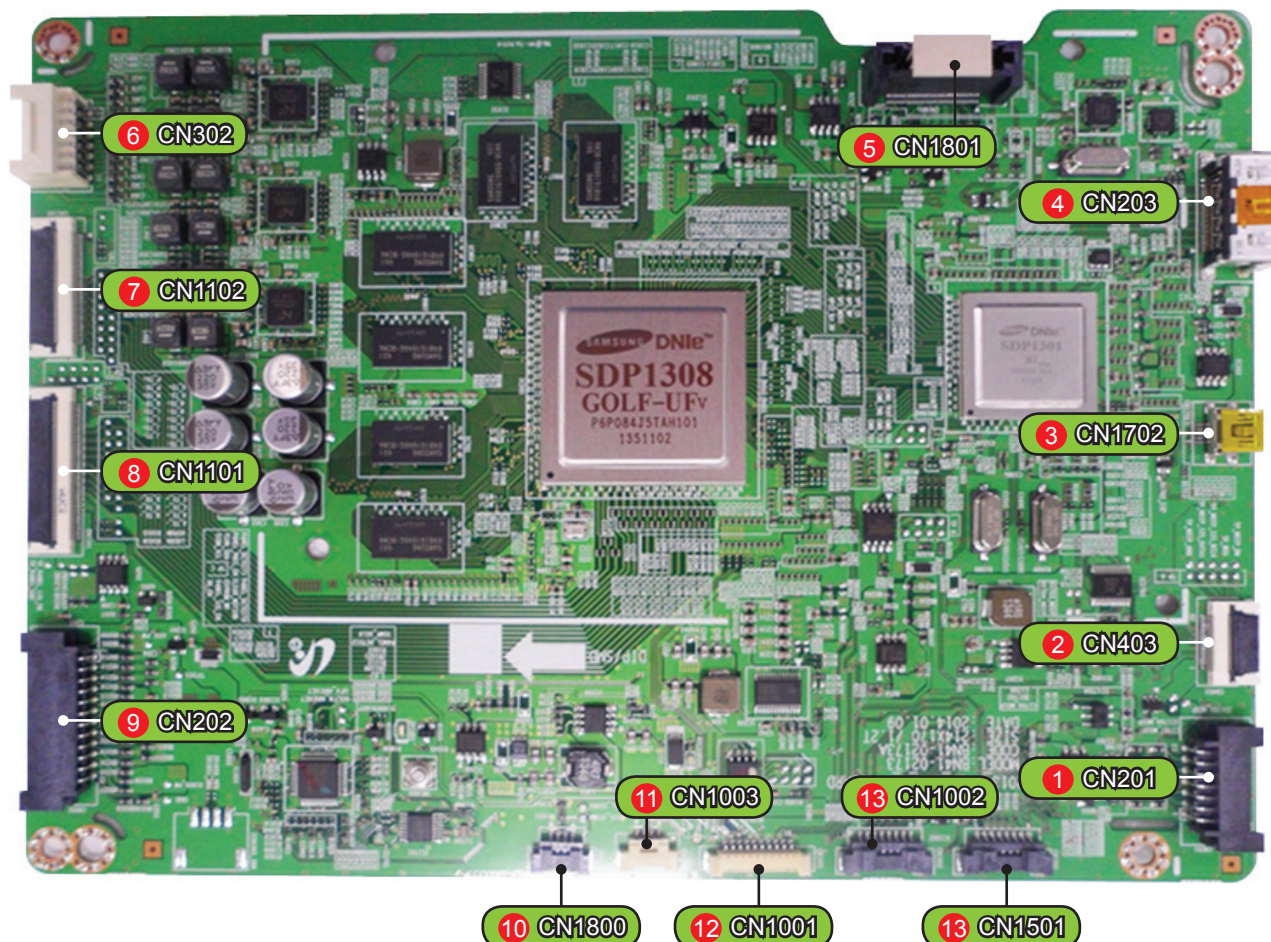
5. Wiring Diagram

5-1. Wiring Diagram



5-2. Connector

■ Main Board



■ Main Board Pin Map

① CN201 (POWER Connector)			
1	GND	8	GND
2	VSYNC_LEFT	9	LD_SDA
3	B5V_PW	10	SDATA_LEFT
4	GND	11	GND
5	GND	12	SSTT_LEFT
6	SCLK_LEFT	13	N.C
7	LD_SCL	14	N.C

② CN403 (MOIP)			
1	GND	11	GND
2	GND	12	KITE I2STX BCLK
3	A5V_MOIP_PW_1	13	GND
4	A5V_MOIP_PW_1	14	KITE I2STX LRCLK
5	GND	15	KITE I2STX DATA1
6	N_USB_MOIP_DM	16	GND
7	N_USB_MOIP_DP	17	KITE I2STX DATA2
8	GND	18	GND
9	WOV	19	GND
10	AIT_RESET	20	GND

③ CN1702 (SAT_MINI USB)			
1	B5V_PW	4	GOLF_SPDIF_OUT_1
2	USB_SAT_DP	5	GND
3	USB_SAT_DM		

④ CN203 (SERDES)				⑦ CN1102 (LVDS)			
1	B3.3V_PW	14	SERDES TX2-	1	PANEL_DETECT2	22	VB1_O_TX-
2	SINGLE_NET	15	GND	2	TEMP_SEL0	23	GND
3	GND	16	SERDES TX1+	3	N.C	24	VB1_N_TX+
4	SERDES TX1+	17	SERDES TX1-	4	N.C	25	VB1_N_TX-
5	SERDES TX1-	18	GND	5	N.C	26	GND
6	GND	19	SERDES TX5+	6	N.C	27	VB1_M_TX+
7	SERDES TX4+	20	SERDES TX5-	7	N.C	28	VB1_M_TX-
8	SERDES TX4-	21	A5V_PW	8	N.C	29	GND
9	GND	22	TX_MICOM_JACK	9	N.C	30	VB1_L_TX+
10	SERDES TX3+	23	RX_MICOM_JACK	10	N.C	31	VB1_L_TX-
11	SERDES TX3-	24	GOLF_SPDIF_OUT	11	N.C	32	GND
12	GND	25	B13V_PW_2	12	N.C	33	VB1_K_TX+
13	SERDES TX2+	26	B13V_PW_2	13	N.C	34	VB1_K_TX-
⑤ CN1801 (KEY FUNCTION & BT & WIFI & IR)				14	N.C	35	GND
1	WIFI_NERSET	14	KEY_INPUT2	15	N.C	36	VB1_J_TX+
2	WAKE_ON_LAN	15	USB_BT_DM	16	N.C	37	VB1_J_TX-
3	A5V_PW_1	16	KEY_INPUT1	17	GND	38	GND
4	USB_WIFI_DM	17	USB_BT_DP	18	VB1_P_TX+	39	VB1_I_TX+
5	USB_WIFI_DP	18	DSDA_3.3V	19	VB1_P_TX-	40	VB1_I_TX-
6	GND	19	GND	20	GND	41	GND
7	BT_NRESET	20	DSCL_3.3V	21	VB1_O_TX+		
8	LED_CTRL	21	BT_SYNC_BUFF				
9	POWER_DET	22	A3.3V_PW				
10	A3.3V_PW	23	REF_SYNC_IN				
11	WAKE_BT	24	GND				
12	A3.3V_PW	25	GND				
13	A5V_PW_1	26	IR				
⑥ CN302 (AUDIO)							
1	TWEETER_R+	8	TWEETER_L-				
2	TWEETER_R-	9	MID_L+				
3	MID_R+	10	MID_L-				
4	MID_R-	11	WF_L_PLUS				
5	WF_R_PLUS	12	WF_L_MINUS				
6	WF_R_MINUS	13	N.C				
7	TWEETER_L+	14	N.C				

5. Wiring Diagram

8 CN1101 (OUTPUT CONNECTOR)			
1	PANEL_DETECT0	27	VB1_C_TX-
2	PANEL_DETECT1	28	GND
3	CLEAR_MOTION_ONEPIN	29	VB1_B_TX+
4	PANEL_PMIC_EN	30	VB1_B_TX-
5	EEPROM_WP	31	GND
6	TCON_SDA	32	VB1_A_TX+
7	PANEL_I2C_EN	33	VB1_A_TX-
8	TCON_SCL	34	GND
9	3D_EN	35	VB1_LOCKN
10	GND	36	VB1_HTPDN
11	VB1_H_TX+	37	GND
12	VB1_H_TX-	38	GND
13	GND	39	GND
14	VB1_G_TX+	40	GND
15	VB1_G_TX-	41	N.C
16	GND	42	PANEL_13V_PW
17	VB1_F_TX+	43	PANEL_13V_PW
18	VB1_F_TX-	44	PANEL_13V_PW
19	GND	45	PANEL_13V_PW
20	VB1_E_TX+	46	PANEL_13V_PW
21	VB1_E_TX-	47	PANEL_13V_PW
22	GND	48	PANEL_13V_PW
23	VB1_D_TX+	49	PANEL_13V_PW
24	VB1_D_TX-	50	PANEL_13V_PW
25	GND	51	PANEL_13V_PW
26	VB1_C_TX+		

9 CN202 (POWER CONNECTOR)			
1	A5V_PW	13	B13V_PW
2	A5V_PW	14	B13V_PW
3	SW_POWER_OUT	15	GND
4	GND	16	B13V_PW
5	GND	17	GND
6	GND	18	GND
7	GND	19	B18VS_PW
8	GND	20	GND
9	B13V_PW	21	B18VS_PW
10	B13V_PW	22	B18VS_PW
11	B13V_PW	23	GND
12	B13V_PW	24	GND

10 CN1800 (SUBMICOM SW DOWNLOAD)			
1	GND	3	SDA_DOWN
2	SCL_DOWN	4	GND

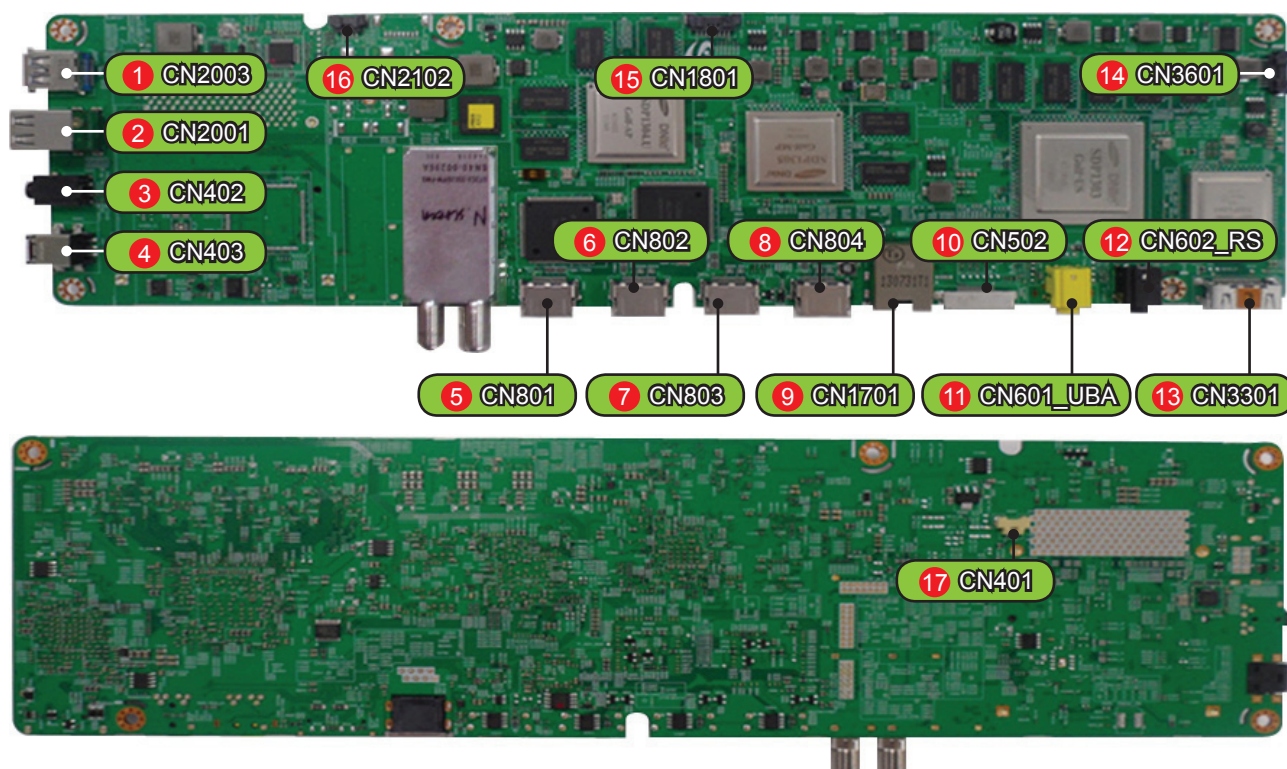
11 CN1003 (MICOM UART)			
1	B3.3V_PW	3	UART_RX
2	UART_TX	4	GND

12 CN1001 (FLASH DOWNLOAD)			
1	B3.3V_PW	6	SSPTXD
2	SSPFRM	7	GND
3	SSPRXD	8	UFV_NRESET
4	SSPWP	9	FRC_SDA
5	SSPCLK	10	FRC_SCL

13 CN1002 (MICOM JTAG)			
1	B3.3V_PW	5	M_TCK
2	M_NTRST	6	M_TDO
3	M_TDI	7	JTAG_NRESET
4	M_TMS	8	GND

14 CN1501 (ARM JTAG)			
1	B3.3V_PW	5	M_TCK
2	M_NTRST	6	M_TDO
3	M_TDI	7	JTAG_NRESET
4	M_TMS	8	GND

■ Backpack Board (One connect)



■ Backpack Board (One connect) Pin Map

1 CN2003 (USB1)			
1	USB1_VCC_5V_PW	6	REDRIVE_RX+_USB3
2	JACK3 D- USB3	7	GND
3	JACK3 D+ USB3	8	REDRIVE_TX-_USB3
4	GND	9	REDRIVE_TX+_USB3
5	REDRIVE_RX-_USB3		

2 CN2001 (USB2 & USB3)			
1	USB2_VCC_5V_PW	5	USB3_VCC_5V_PW
2	JACK2_D-_USB	6	JACK1_D-_USB
3	JACK2_D+_USB	7	JACK1_D+_USB
4	GND	8	GND

3 CN402 (IRB CONNECTOR)			
1	GND	5	N.C
2	IRB IR TX 1	6	IRB JACK ID
3	N.C	7	GND
4	N.C		

4 CN402 (IRB CONNECTOR)			
1	GOLF_SPDIF_OUT	3	GND
2	B5V_USB_OP_WIFI_CI_PW		

5 CN801 (HDMI1_STB)			
1	HDMI1_RX2+_HDMI	11	GND
2	GND	12	HDMI1_RXCLK-_HDMI
3	HDMI1_RX2-_HDMI	13	N.C
4	HDMI1_RX1+_HDMI	14	GND
5	GND	15	HDMI1_SCL_DDC
6	HDMI1_RX1-_HDMI	16	HDMI1_SDA_DDC
7	HDMI1_RX0+_HDMI	17	GND
8	GND	18	HDMI1_5V
9	HDMI1_RX0-_HDMI	19	HDMI1_HPD
10	HDMI1_RXCLK+_HDMI		

6 CN802 (HDMI2_DVI_PC)			
1	HDMI2_RX2+_HDMI	11	GND
2	GND	12	HDMI2_RXCLK-_HDMI
3	HDMI2_RX2-_HDMI	13	N.C
4	HDMI2_RX1+_HDMI	14	GND
5	GND	15	HDMI2_SCL_DDC
6	HDMI2_RX1-_HDMI	16	HDMI2_SDA_DDC
7	HDMI2_RX0+_HDMI	17	GND
8	GND	18	HDMI2_5V
9	HDMI2_RX0-_HDMI	19	HDMI2_HPD
10	HDMI2_RXCLK+_HDMI		

5. Wiring Diagram

7 CN803 (HDMI3_ARC)			
1	HDMI3_RX2+_HDMI	11	GND
2	GND	12	HDMI3_RXCLK-_HDMI
3	HDMI3_RX2-_HDMI	13	N.C
4	HDMI3_RX1+_HDMI	14	GND
5	GND	15	HDMI3_SCL_DDC
6	HDMI3_RX1-_HDMI	16	HDMI3_SDA_DDC
7	HDMI3_RX0+_HDMI	17	GND
8	GND	18	HDMI3_5V
9	HDMI3_RX0-_HDMI	19	HDMI3_HPD
10	HDMI3_RXCLK+_HDMI		

8 CN804 (HDMI4_SUPORRT UHD/MHL)			
1	HDMI4_RX2+_HDMI	11	GND
2	MHL_INT	12	HDMI4_RXCLK-_HDMI
3	HDMI4_RX2-_HDMI	13	N.C
4	HDMI4_RX1+_HDMI	14	GND
5	GND	15	HDMI4_SCL_DDC
6	HDMI4_RX1-_HDMI	16	HDMI4_SDA_DDC
7	HDMI4_RX0+_HDMI	17	GND
8	GND	18	HDMI4_5V
9	HDMI4_RX0-_HDMI	19	HDMI4_HPD
10	HDMI4_RXCLK+_HDMI		

9 CN1701 (LAN)			
1	MDIO TX+ LAN	5	GND
2	GND	6	MDIO_RX- LAN
3	MDIO TX- LAN	7	N.C
4	MDIO RX+ LAN	8	LAN_GND

10 CN502 (COMPONENT)			
1	IDENT_COMP_Y	10	COMP_PR
2	AV1_CVBS_IN	11	IDENT_COMP_Y
3	IDENT_COMP_Y	12	COMP_PB
4	COMP_AV1_SL_IN	13	IDENT_COMP_Y
5	IDENT_COMP_Y	14	HP_AUD_SL_OUT
6	COMP_AV1_SR_IN	15	IDENT_COMP_Y
7	IDENT_COMP_Y	16	HP_AUD_SR_OUT
8	COMP_Y	17	IDENT_CVBS
9	IDENT_COMP_Y	18	IDENT_GENDER

11 CN601_UBA (AV2)			
1	GND	5	TEST_SR
2	SC1_AV2_CVBS	6	TEST_SL
3	SC1_AV2_SR_IN	7	SV1_AV2_SL_IN
4	SC1_AV2_ID		

12 CN602_RS (AV-LINK/RS232C)			
1	GND	5	N.C
2	FA_TX	6	IDENT_FANET
3	FA_RX	7	GND
4	N.C		

13 CN3301 (SERDES)			
1	B3.3V_PW	14	SERDES T2-
2	GCLK1_P	15	GND
3	GND	16	SERDES T1+
4	SERDES R1+	17	SERDES T1-
5	SERDES R1-	18	GND
6	GND	19	SERDES T5+
7	SERDES T4+	20	SERDES T5-
8	SERDES T4-	21	A5V_PW
9	GND	22	RX MICOM JACK
10	SERDES T3+	23	TX MICOM JACK
11	SERDES T3-	24	GVLK0_P
12	GND	25	B13V_PW
13	SERDES T2+	26	B13V_PW

14 CN3601			
1	B3.3V_PW	5	N TCK
2	N NTRST	6	N TDO
3	N TDI	7	N NRESET
4	N TMS	8	GND

15 CN1801 (ARM JTAG)			
1	B3.3V_PW	5	ARM TCK
2	ARM NTRST	6	ARM TDO
3	ARM TDI	7	ARM NRESET
4	ARM TMS	8	GND

16 CN2102 (SUBMICOM SW DOWNLOAD)			
1	GND	3	SDA_DOWN
2	SCL_DOWN	4	GND

17 CN401 (FAN)			
1	FAN_ERROR	3	B13V_PW_1
2	GND		

5-3. Connector Functions

Connector	Function
CN201 ↔ CN100_MAIN	Supply main power from FRC board to Main Board.
CN101_SMPS ↔ CNM804	Supply main power from SMPS board to FRC Board.
CN3501 ↔ CN301 / CN3301 ↔ CN300	The LVDS signal transfered from Main Board to FRC.