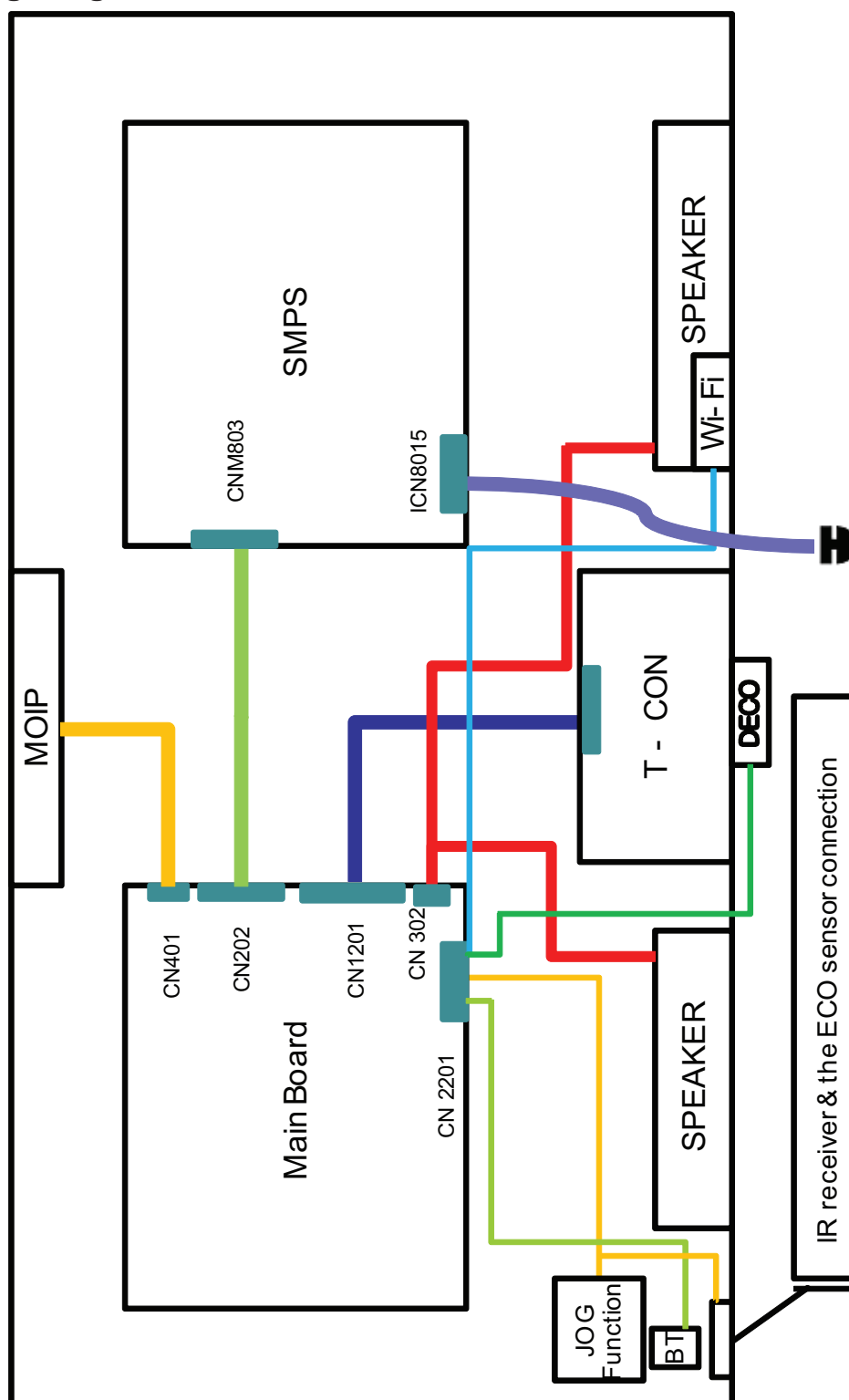
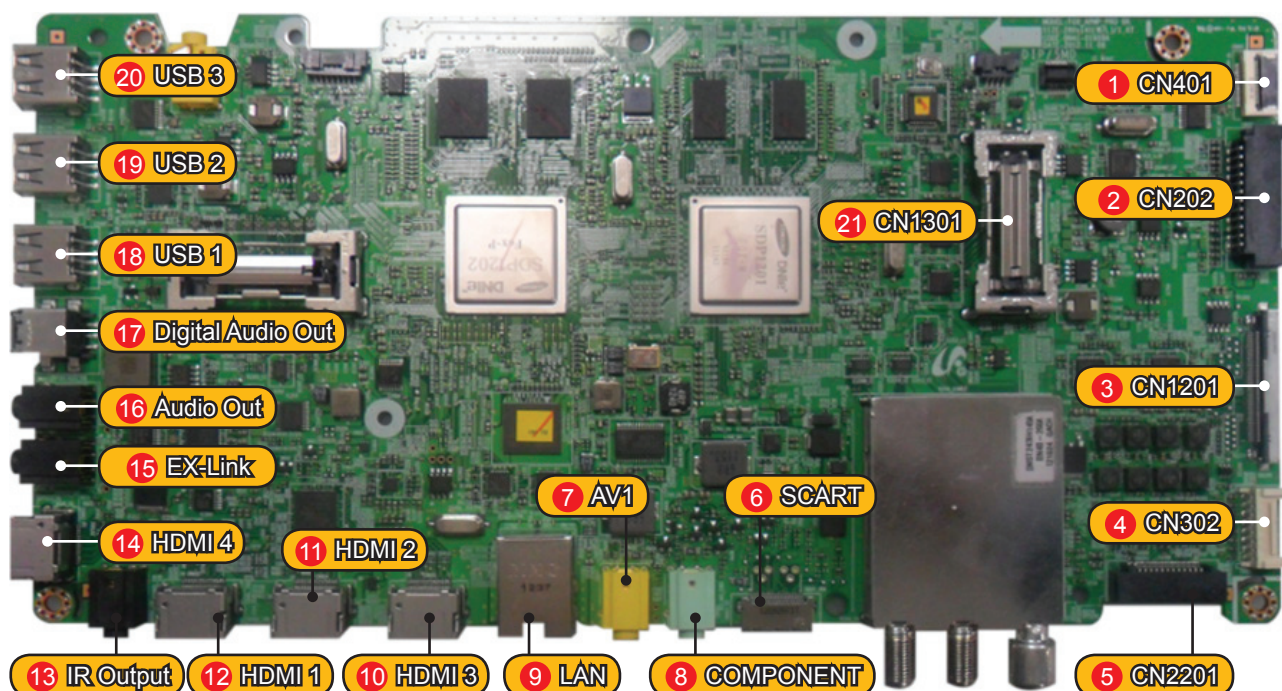


## 5. Wiring Diagram

### 5-1. Wiring Diagram



## 5-2. Connector



**1 CN401(MOIP)**

1	NC	11	DGND
2	DGND	12	KITE_I2STX_BCLK
3	A5V_MOIP_PW	13	DGND
4	NC	14	KITE_I2STX_LRCLK
5	DGND	15	KITE_I2STX_DATA1
6	USB_MOIP_DM	16	DGND
7	USB_MOIP_DP	17	KITE_I2STX_DATA2
8	DGND	18	DGND
9	WOV	19	DGND
10	AIT_RESET	20	DGND

**2 CN201(POWER)**

1	B5V_PW	13	B13V_PW
2	SW_POWER_OUT	14	PWM_DIMMING_TCON1_CPLD
3	B5V_PW	15	POWER_GND
4	GND	16	PWM_DIMMING_TCON2_CPLD
5	GND	17	OVD_ON_OFF(LD_SCL)
6	GND	18	PWM_DIMMING_TCON3_CPLD
7	B13VS_PW	19	OVD_LEVEL(LD_SDA)
8	GND	20	PWM_DIMMING_TCON4_CPLD
9	B13VS_PW	21	B13V_PW
10	B5V_PW	22	PWM_DIMMING_TCON5_CPLD
11	B13V_PW	23	B13V_PW
12	NC	24	B13VS_PW

**3 CN1201(LVDS)**

1	NC	27	LVDS_EVEN_TX0-
2	DGND	28	DGND
3	SDA_3D_FRC	29	LVDS_ODD_TX4+
4	PWM_DIMMING_TCON1	30	LVDS_ODD_TX4-
5	SCL_3D_FRC	31	LVDS_ODD_TX3+
6	PWM_DIMMING_TCON3	32	LVDS_ODD_TX3-
7	PWM_DIMMING_TCON2	33	DGND
8	SDA_PANEL	34	TLVDS_ODD_TXCLK+
9	PANEL_I2C_SW	35	LVDS_ODD_TXCLK-
10	EMITTER_BT_SYNC_OUT	36	DGND
11	REF_SYNC_IN	37	LVDS_ODD_TX2+
12	SCL_PANEL	38	LVDS_ODD_TX2-
13	DGND	39	LVDS_ODD_TX1+
14	LVDS_EVEN_TX4+	40	LVDS_ODD_TX1-
15	LVDS_EVEN_TX4-	41	LVDS_ODD_TX0+
16	LVDS_EVEN_TX3+	42	LVDS_ODD_TX0-
17	LVDS_EVEN_TX3-	43	DGND
18	DGND	44	DGND
19	LVDS_EVEN_TXCLK+	45	DGND
20	LVDS_EVEN_TXCLK-	46	PWM_DIMMING_TCON4
21	DGND	47	PANEL_VCC_13V
22	LVDS_EVEN_TX2+	48	PANEL_VCC_13V
23	LVDS_EVEN_TX2-	49	PANEL_VCC_13V
24	LVDS_EVEN_TX1+	50	PANEL_VCC_13V
25	LVDS_EVEN_TX1-	51	PANEL_VCC_13V
26	LVDS_EVEN_TX0+		

**4 CN302(SPEAKER)**

1	R1+	5	L1+
2	R1-	6	L1-
3	R2+	7	L2+
4	R2-	8	L2-

**5 CN2201(KEY FUNCTION/BLUETOOTH/WIFI)**

1	BT_NRESET	14	EMITTER_BT_SYNC_OUT
2	WAKE_BT	15	DSDA_3.3V
3	POWER_DET	16	GND
4	A5V_PW	17	DSDA_3.3V
5	A3.3V_PW	18	B5V_USB_OP_WIFI_CI_PW
6	USB_BT_DP	19	KEY_INPUT1
7	LED_CNTR	20	USB_WIFI_DM_HUB2
8	USB_BT_DM	21	KEY_INPUT2
9	IR	22	USB_WIFI_DP_HUB2
10	GND	23	A3.3V_PW
11	GND	24	GND
12	EMITTER_BT_SYNC_BUFF	25	GND
13	A3.3_PW	26	GND

**6 CN503(SCART1)**

1	DGND	13	NC
2	DGND	14	SC1_G
3	DGND	15	DGND
4	DGND	16	NC
5	SC1_AV2_CVBS_IN	17	IDENT_SC1_AV
6	DGND	18	DGND
7	SC1_CVBS_OUT	19	DGND
8	DGND	20	SC1_AB2_SL_IN
9	SC1_FB	21	SC1_AB2_SR_IN
10	DGND	22	DGND
11	DGND	23	SC1_SL_OUT
12	DGND	24	SC1_SR_OUT

**7 CN404(COMPONENT)**

1	DGND	5	TEST_PB
2	COMP_Y	6	TEST_PR
3	COMP_PB	7	COMP_PR
4	TEST_CVBS_Y3		

**8 CN405(AV-LINK)**

1	DGND	5	TEST_SR
2	AV1_CVBS	6	TEST_SL
3	COMP_AV1_SR_IN	7	COMP_AV1_SL_IN
4	IDENT_AV1		

## 5. Wiring Diagram

9 CN1701(LAN)			
1	TX+	5	DGND
2	DGND	6	RX-
3	TX-	7	NC
4	RX+	8	LAN_GND

10 CN602(HDMI 1/STB)			
1	HDMI1_RX2+	11	DGND
2	DGND	12	HDMI1_RXCLK-
3	HDMI1_RX2-	13	HDMI_CEC
4	HDMI1_RX1+	14	DGND
5	DGND	15	HDMI1_DDC_SCL
6	HDMI1_RX2-	16	HDMI1_DDC_SDA
7	HDMI1_RX0+	17	DGND
8	DGND	18	HDMI1_5V
9	HDMI1_RX0-	19	HDMI1_HPD
10	HDMI1_RXCLK+		

11 CN604(HDMI 2/DVI_PC)			
1	HDMI4_RX2+	11	DGND
2	DGND	12	HDMI4_RXCLK-
3	HDMI4_RX2-	13	HDMI_CEC
4	HDMI4_RX1+	14	DGND
5	DGND	15	HDMI4_DDC_SCL
6	HDMI4_RX2-	16	HDMI4_DDC_SDA
7	HDMI4_RX0+	17	DGND
8	DGND	18	HDMI4_5V
9	HDMI4_RX0-	19	HDMI4_HPD
10	HDMI4_RXCLK+		

12 CN603(HDMI 3/ARC)			
1	HDMI2_RX2+	11	DGND
2	DGND	12	HDMI2_RXCLK-
3	HDMI2_RX2-	13	HDMI_CEC
4	HDMI2_RX1+	14	DGND
5	DGND	15	HDMI2_DDC_SCL
6	HDMI2_RX2-	16	HDMI2_DDC_SDA
7	HDMI2_RX0+	17	DGND
8	DGND	18	HDMI2_5V
9	HDMI2_RX0-	19	HDMI2_HPD
10	HDMI2_RXCLK+		

13 CN2402_IRB(IR_OUT)			
1	DGND	5	NC
2	IRB_IR_TX	6	IRB_JACK_ID
3	NC	7	DGND
4	NC		

14 CN601(HDMI 4/MHL)			
1	HDMI3_RX2+	11	DGND
2	DGND	12	HDMI3_RXCLK-
3	HDMI3_RX2-	13	HDMI_CEC
4	HDMI3_RX1+	14	DGND
5	DGND	15	HDMI3_DDC_SCL
6	HDMI3_RX2-	16	HDMI3_DDC_SDA
7	HDMI3_RX0+	17	DGND
8	DGND	18	HDMI3_5V
9	HDMI3_RX0-	19	HDMI3_HPD
10	HDMI3_RXCLK+		

15 CN502_US(AV_LINK)			
1	DGND	5	NC
2	FA_TX	6	IDENT_FANET
3	FA_RX	7	DGND
4	NC		

16 CN301(HEADPHONE / LR_OUT)			
1	DGND	5	TEST_SR
2	HP_AUD_SL_OUT	6	IDENT_HP
3	HP_SUD_SR_OUT	7	DGND
4	TEST_SL		

17 U301(OPTICAL)			
1	FOX_SPDIF_OUT	3	DGND
2	B5V_USB_OP_WIFI_CI_PW		

16 CN2102(USB1)			
1	USB1_VCC_5V_PW	3	USB1_DP
2	USB1_DM	4	DGND

19 CN2103(USB2)			
1	USB2_VCC_5V_PW	3	USB2_DP
2	USB2_DM	4	DGND

20 CN2104(USB3)			
1	USB3_VCC_5V_PW	3	USB3_DP
2	USB3_DM	4	DGND

21 CN1301(UPGRADE TV MODULE)							
1	UP_SSRXP	24	FOX_LVDS_EVEN_TX1+	47	UP_SSTXP	70	LVDS_EVEN_TX1+
2	UP_SSRXM	25	FOX_LVDS_EVEN_TX2-	48	UP_SSTXM	71	LVDS_EVEN_TX2-
3	NC	26	FOX_LVDS_EVEN_TX2+	49	NC	72	LVDS_EVEN_TX2+
4	B13V_UP_PW	27	DGND	50	B13V_UP_PW	73	DGND
5	B13V_UP_PW	28	FOX_LVDS_EVEN_TXCLK-	51	B13V_UP_PW	74	LVDS_EVEN_TXCLK-
6	NC	29	FOX_LVDS_EVEN_TXCLK+	52	NC	75	LVDS_EVEN_TXCLK+
7	FOX_LVDS_ODD_TX0-	30	DGND	53	LVDS_ODD_TX0-	76	DGND
8	FOX_LVDS_ODD_TX0+	31	FOX_LVDS_EVEN_TX3-	54	LVDS_ODD_TX0+	77	LVDS_EVEN_TX3-
9	FOX_LVDS_ODD_TX1-	32	FOX_LVDS_EVEN_TX3+	55	LVDS_ODD_TX1-	78	LVDS_EVEN_TX3+
10	FOX_LVDS_ODD_TX1+	33	FOX_LVDS_EVEN_TX4-	56	LVDS_ODD_TX1+	79	LVDS_EVEN_TX4-
11	FOX_LVDS_ODD_TX2-	34	FOX_LVDS_EVEN_TX4+	57	LVDS_ODD_TX2-	80	LVDS_EVEN_TX4+
12	FOX_LVDS_ODD_TX2+	35	DGND	58	LVDS_ODD_TX2+	81	FOX_I2STX1_LRCLK
13	DGND	36	HUB2CPU_USB_DP	59	DGND	82	FOX_I2STX1_BCLK
14	FOX_LVDS_ODD_TXCLK-	37	HUB2CPU_USB_DM	60	LVDS_ODD_TXCLK-	83	FOX_I2STX1_SPK_SDATA
15	FOX_LVDS_ODD_TXCLK+	38	DGND	61	LVDS_ODD_TXCLK+	84	UP_MODULE_SYNC
16	DGND	39	FOXAP_USB3_DP	62	DGND	85	EXT_GPIO0_NRESET
17	FOX_LVDS_ODD_TX3-	40	FOXAP_USB3_DM	63	LVDS_ODD_TX3-	86	B3.3V_PW
18	FOX_LVDS_ODD_TX3+	41	DGND	64	LVDS_ODD_TX3+	87	EXT_GPIO1_WAKEUP
19	FOX_LVDS_ODD_TX4-	42	EXT_UART_RX	65	LVDS_ODD_TX4-	88	UP_MODULE_SPDIF
20	FOX_LVDS_ODD_TX4+	43	EXT_UART_TX	66	LVDS_ODD_TX4+	89	A5V_PW
21	FOX_LVDS_EVEN_TX0-	44	CPU2CPU_USB_DP	67	LVDS_EVEN_TX0-	90	CPU2CPU_USB_DM
22	FOX_LVDS_EVEN_TX0+	45	SBB_MDI0_TX+	68	LVDS_EVEN_TX0+	91	SBB_MDI1_RX+
23	FOX_LVDS_EVEN_TX1-	46	SBB_MDI0_TX-	69	LVDS_EVEN_TX1-	92	SBB_MDI1_RX-

### 5-3. Connector Functions

Connector	Function
CN201 ↔ IP CN801	Supply main power and dimming signal from IP Board to Main Board.
CN401 ↔ MoIP	Control Moip & IR from Main Board.
CN1601_FHD ↔ T-CON CNF1	The LVDS signal transfered from Main Board to Panel.