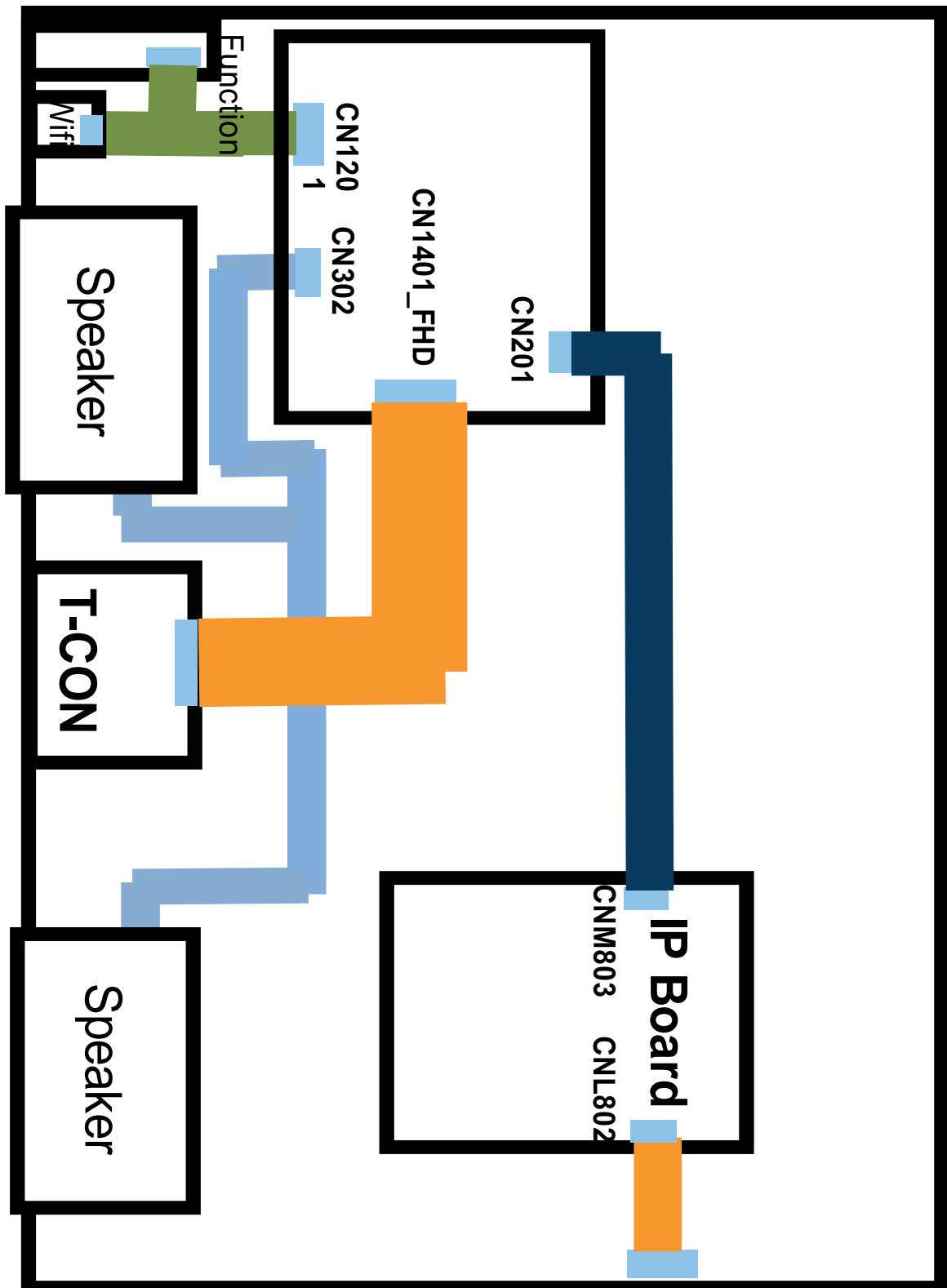


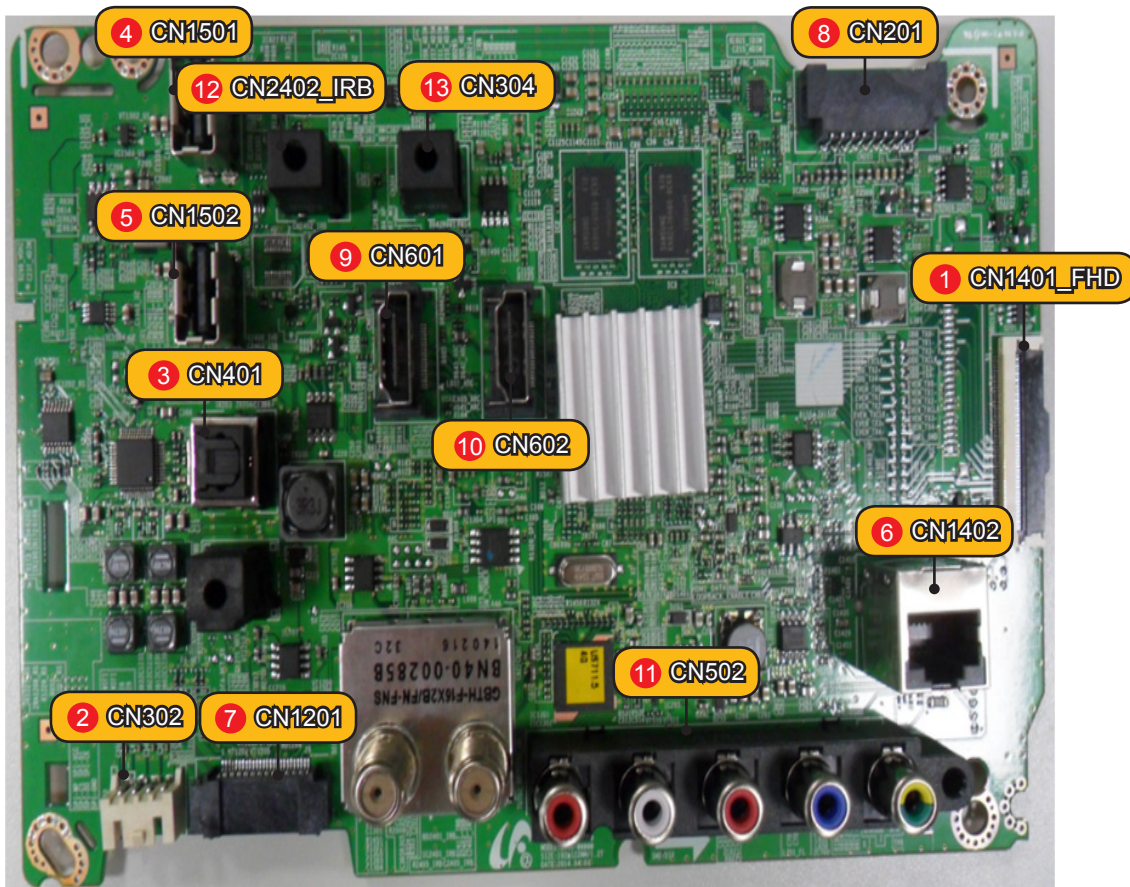
5. Wiring Diagram

5-1. Wiring Diagram



5-2. Connector

■ Main Board



① CN1401_FHD			
1	NC	16	EVEN_TX3+
2	GND	17	EVEN_TX3-
3	FRC_SDA	18	GND
4	FRC_PWM1	19	EVEN_TXCLK-
5	FRC_SCL	20	EVEN_TXCLK+
6	FRC_PWM3	21	GND
7	FRC_PWM2	22	EVEN_TX2+
8	TCON_SDA	23	EVEN_TX2-
9	PANEL_I2C_EN	24	EVEN_TX1+
10	BT_SYNC	25	EVEN_TX1-
11	UPDATE_CHK	26	EVEN_TX0+
12	TCON_SCL	27	EVEN_TX0-
13	GND	28	GND
14	EVEN_TX4+	29	ODD_TX4+
15	EVEN_TX4-	30	ODD_TX4-

① CN1401_FHD			
31	ODD_TX3+	42	ODD_TX0-
32	ODD_TX3-	43	GND
33	GND	44	GND
34	ODD_TXCLK+	45	GND
35	ODD_TXCLK-	46	FRC_PWM4
36	GND	47	PANEL_13V_PW
37	ODD_TX2+	48	PANEL_13V_PW
38	ODD_TX2-	49	PANEL_13V_PW
39	ODD_TX1+	50	PANEL_13V_PW
40	ODD_TX1-	51	PANEL_13V_PW
41	ODD_TX0+		

② CN302 (to Speaker)			
1	R+	3	L+
2	R-	4	L-

③ CN401_OPT (to Optical Jack)			
1	SPDIF_OUT	3	GND
2	B5V_DC_PW		

④ CN1501 (USB1)			
1	B5V_USB1_PW	3	USB1_DP
2	USB1_DM	4	GND

⑤ CN1502 (USB2)			
1	B5V_USB2_PW	3	USB2_DP
2	USB2_DM	4	GND

⑥ CN1402 (to LAN)			
1	LAN_TXD+	5	GND
2	GND	6	LAN_RXD-
3	LAN_TXD-	7	NC
4	LAN_RXD+	8	GND

⑦ CN1201_FUN (to Function/IR)			
1	IR	14	A5V
2	GND	15	LED_STB
3	GND	16	BT_WAKE
4	FRAME_SYNC_IN	17	GND
5	A3.3V	18	POWER_DET
6	BT_SYNC	19	NC
7	MSCL	20	BT_RESET
8	GND	21	GND
9	MSDA	22	WIFI_DP
10	USB_BT_DP	23	WIFI_DM
11	KEY_INPUT1	24	B5V_DC_PW
12	USB_BT_DM	25	WIFI_WOL
13	KEY_INPUT2	26	WIFI_RESET

⑧ CN201 (to Power board)			
1	FRC_PWM4	10	SW_INVERTER
2	NC	11	A13V_PW
3	GND	12	OVD_LEVEL
4	GND	13	A13V_PW
5	A13V_PW	14	OVD_ON_OFF
6	GND	15	GND
7	A13V_PW	16	PWM_DIM
8	SW_POWER_OUT	17	FRC_PWM3
9	A13V_PW	18	FRC_PWM2

⑨ CN601 (to HDMI1)			
1	HDMI1_RX2+	11	GND
2	GND	12	HDMI1_RXCLK-
3	HDMI1_RX2-	13	CEC
4	HDMI1_RX1+	14	NC
5	GND	15	HDMI1_SCL_DDC
6	HDMI1_RX1-	16	HDMI1_SDA_DDC
7	HDMI1_RX0+	17	GND
8	GND	18	HDMI1_5V
9	HDMI1_RX0-	19	HDMI1_HOT_PLUG
10	HDMI1_RXCLK+		

⑩ CN602 (to HDMI2)			
1	HDMI2_RX2+	11	GND
2	GND	12	HDMI2_RXCLK-
3	HDMI2_RX2-	13	CEC
4	HDMI2_RX1+	14	ARC2_SIGLE
5	GND	15	HDMI2_SCL_DDC
6	HDMI2_RX1-	16	HDMI2_SDA_DDC
7	HDMI2_RX0+	17	GND
8	GND	18	HDMI2_5V
9	HDMI2_RX0-	19	HDMI2_HOT_PLUG
10	HDMI2_RXCLK+		

⑪ CN502 (to Component&AV)			
1	GND	9	TEST_PR
2	COMP2_Y_CVBS	10	GND
3	INDENT_VIEDO2	11	COMP2_AV2_SL_IN
4	GND	12	TEST_SL
5	COMP2_PB	13	GND
6	INDENT_COMP2	14	COMP2_AV2_SR_IN
7	GND	15	TEST_SR
8	COMP2_PR		

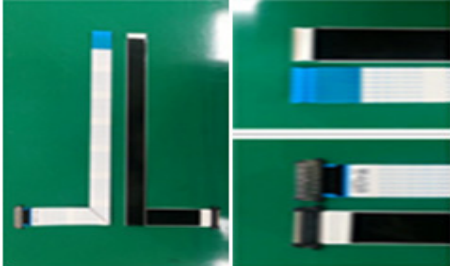
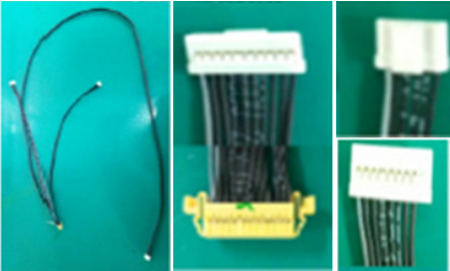
⑫ CN2402_IRB (IRB) : It's depend on Country.			
1	GND	5	NC
2	B3.3V_PW	6	IRB_JACK_ID
3	NC	7	GND
4	NC		

⑬ CN304 (HEADPHONE & LR OUT)			
1	GND	4	TEST_SL
2	HP_LINE_SL_OUT	5	TEST_SR
3	HP_LINE_SR_OUT	6	IDENT_HP

5-3. Connector Functions

Connector	Function
CN201 ↔ CNM803	Supply main power and dimming signal from IP Board to Main Board.
CN1401 ↔ T-CON	The LVDS signal transferred from Main Board to Panel.

5-4. Cables

Use	Model	Main-SMPS (18P-10P)	Main-Tcon
Code No.	UN58H5203	BN39-01889K	BN96-33236H
Image	/		
Use	Model	Main-Function/WiFi Module	
Code No.	UN58H5203	BN39-01903N	
Image	/		

5-5. The Types of Module

Use	Wifi module	Function module
Code No.	BN59-01174A	BN96-30902X
Standard	IEEE802.11abgn	-
Image		