



UHD TV

Chassis : UKU6000P

Model : UN40KU630DF

UN43KU630DF

UN50KU630DF

UN55KU630DF

UN60KU630DF

UN65KU630DF

SERVICE Manual

UHD TV



UN**KU630DF

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2. Product specifications
3. Disassembly and Reassembly
4. Troubleshooting
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1. Precautions

1-1. Safety Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1-1. Warnings



For continued safety, do not attempt to modify the circuit board.
Disconnect the AC power and DC power jack before servicing.

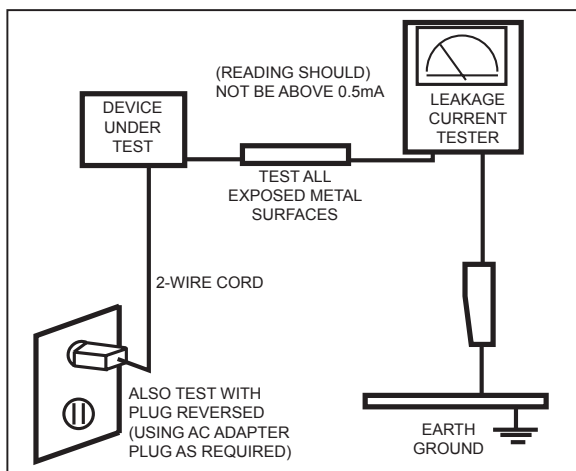
1-1-2. Servicing the LED TV

1. When servicing the LED TV, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3. Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor/capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check:



Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts.
The current measured should not exceed 0.5 milliamp.
Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4. Product Safety Notices

Some electrical and mechanical parts have special safetyrelated characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by  on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2. Servicing Precautions



An electrolytic capacitor installed with the wrong polarity might explode.



Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.



If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1. General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to: (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug. The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3. Static Electricity Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.



Be sure no power is applied to the chassis or circuit and observe all other safety precautions.

8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4. Installation Precautions

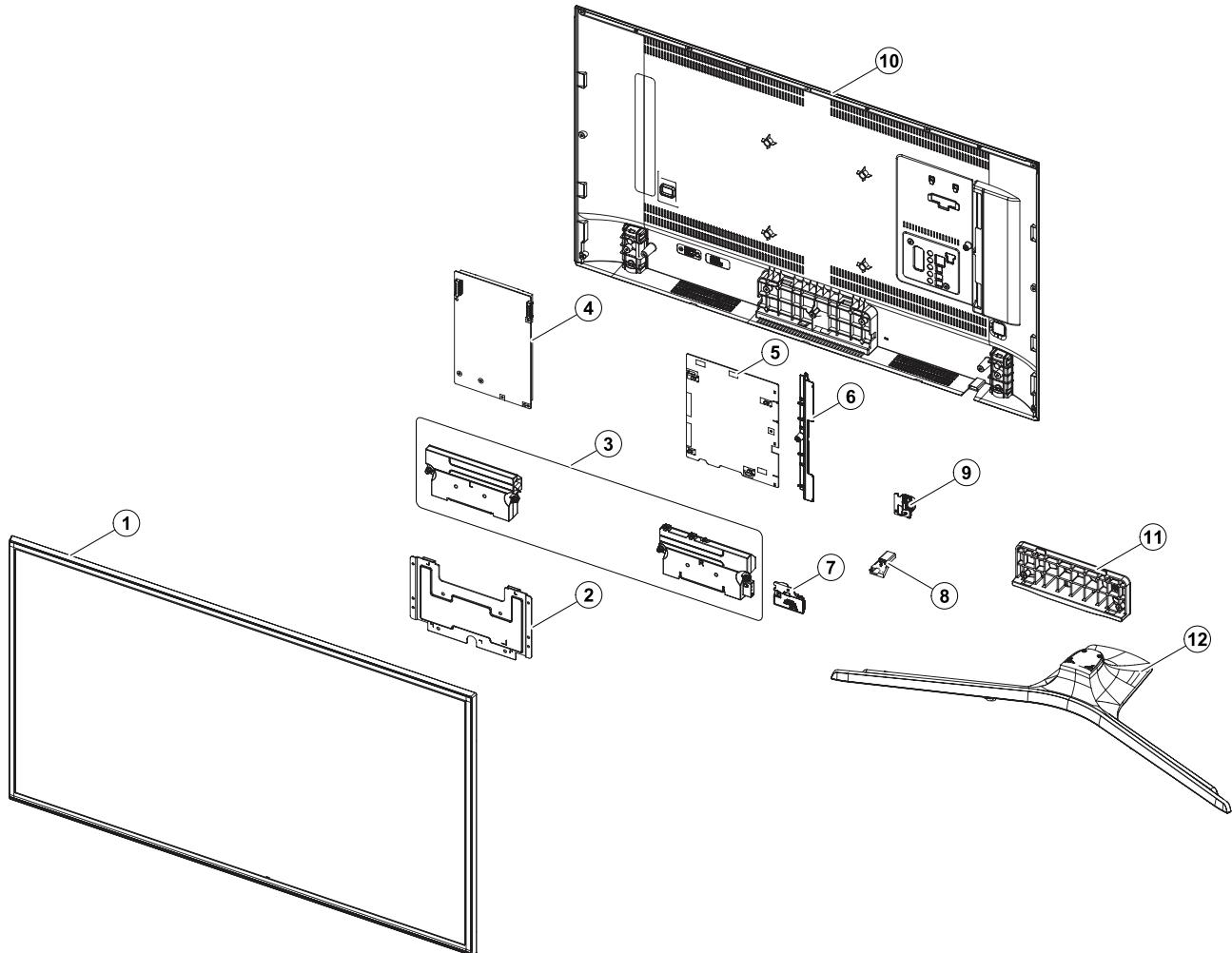
1. For safety reasons, more than a people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (0.4m) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.
8. If an equipment is provided with a replaceable battery, and if replacement by an incorrect type could result in an explosion (for example, with some lithium batteries), the following applies:

**CAUTION**

- Risk of explosion if battery is replaced by an incorrect type dispose of used batteries according to the instructions.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not be exposed to excessive heat such as sunshine, fire or the like.

ANNEX. Exploded View & Part List [UN60KU630DFXZA EA01]

1-1. Exploded View



1-1-1. Parts List

No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
1	BN95-02639A	PRODUCT LCD-SHARP; CY-GK060HGSV1V/H,KU6	1	SA	
2	BN61-11517A	BRACKET-STAND LINK; HGI-SGHC,T2,NATURAL	1	SNA	
3	BN96-35006C	ASSY SPEAKER P-FRONT; TV-SPK,JU7000,6ohm,	1	SA	
4	BN44-00808D	DC VSS-PD BOARD; L65S6N_FSM W,AC/DC,262W,	1	SA	
5	BN94-10802X	ASSY PCB MAIN; LEDTV 6K	1	SA	
6	BN63-15236A	COVER-TERMINAL SIDE; 55KU6000,HIPS,MOLD,H	1	SA	
7	BN59-01239A	NETWORK-WLAN CLIENT; WCK730B,USB 2.0,16P,	1	SA	
8	BN96-39955A	ASSY BOARD P-IR FUNCTION; KU6000,IR ASSY_	1	SA	
9	BN96-35345B	ASSY BOARD P-FUNCTION JOG; JU7500,CT15S	1	SA	
10	BN96-39867A	ASSY COVER P-REAR; 60KU6000,PC+ABS GF15	1	SA	
11	BN96-38553A	ASSY GUIDE P-STAND; 60JS6900,NORTH AMERIC	1	SA	
12	BN96-37971C	ASSY STAND P-BOTTOM; J6200 60",BN63-14511	1	SA	

2-1. Electrical Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
			UN60KU630DFXZA (EA01)			
1	S001A	BN90-07744A	ASSY STAND;JS6900	1	SNA	
0.2	SB04A	BN96-37971C	ASSY STAND P-BOTTOM;J6200 60",BN63-14511	1	SA	
..3	SCREW	6003-001001	SCREW-TAPTYPE;FH,+, -,B,M3,L8,ZPC(BLK),SW	2	SA	
..3	SCREW	6003-001119	SCREW-TAPTYPE;FH,+,S,M4,L10,ZPC(BLK),SWR	4	SA	
..3	SCREW	6003-001239	SCREW-TAPTYPE;FH,+,B,M4,L10,ZPC(WHT),SWR	6	SA	
..3		BN61-12727A	BRACKET-STAND BOTTOM;HGI,T3,NATURAL	1	SNA	
..3		BN61-12728A	BRACKET-STAND BODY;HGI,T1.9,NATURAL	1	SNA	
..3	CCM1	BN63-05199H	SHEET-PROTECTION COVER;AMBER,PE,T0.08,W1	1	SNA	
..3		BN63-14511A	COVER-STAND TOP;15Y J6200 60",PC+ABS+GF2	1	SNA	
..3	RF01	BN67-00398P	FOOT-RUBBER;SILICONE,GRAY,T2.5	5	SNA	
..3		BN68-05381A	LABEL-STICKER;ART 100G,T0.08,W20x50,WHIT	2	SNA	
..3		BN95-02371C	ASSY COVER STAND SMT;J6200,60,DARK TITAN	1	SA	
...4		0204-006861	COATING;SMT-L100,CLEAR,0.928	1	SNA	
...4		BN01-00160A	TARGET-CHROMIUM CY;Chromium,99.95%,1800x	0	SNA	
...4		BN01-00161A	TARGET-CHROMIUM PL;Chromium,99.95%,1800x	0	SNA	
...4		BN63-14515A	COVER-STAND DECORATION;15Y J6200 60",PC+	1	SNA	
...4		BN68-06391B	LABEL-STICKER;SMT,ART,W10,L20,Brown,Dark	1	SNA	
0.2	SG01A	BN96-38553A	ASSY GUIDE P-STAND;60JS6900,NORTH AMERIC	1	SA	
..3		0203-001602	TAPE-OPP;#232,0.14,15,50000,YEL	0	SNA	
..3		6902-002472	BAG PE;HDPE/PE FOAM,T0.015/T0.5,W300,L45	1	SNA	
..3	SG03	BN61-12971A	GUIDE-STAND;JS6.9K_60,PC+GF20%,V-2,BK000	1	SNA	
..3		BN96-32380B	ASSY ACCESSORY-SCREW;BN69-10588A,BN61-09	1	SNA	
...4	HOLDER-BOLT	BN61-09494D	HOLDER-BOLT;BH+,SWRCH18A,BLACK,PRESS,B T	4	SA	
...4		BN69-10588A	BAG SCREW;LDPE,0.05,70,90,TRP,LED TV,LDP	1	SNA	
..3		BN96-38693A	ASSY ACCESSORY-SCREW;JS7200	1	SNA	
...4		6902-000341	BAG PE;LDPE,T0.05,W70,L90,TRP,N	1	SNA	
...4	SCREW	BN61-09494B	SCREW-TAPTYPE;BH,+,S,M4,L14,ZPC(BLK),SWR	4	SA	
...4		BN68-07575A	LABEL-STICKER SCREW;60J6300,ART,15 X 10	1	SNA	
1	R001A	BN90-08002A	ASSY COVER REAR;LEDTV 6K	1	SNA	
0.2	SCREW	6001-002755	SCREW-MACHINE;BH,+,M3,L6,ZPC(BLK),SWRCH1	18	SA	
0.2	SCREW	6003-000003	SCREW-TAPTYPE;BH,+, -,B,M4,L10,ZPC(BLK),S	1	SA	
0.2	R001A	BN96-39867A	ASSY COVER P-REAR;60KU6000,PC+ABS GF15%,	1	SA	
..3	R001	BN63-13233A	COVER-REAR;60JU7000,PC+ABS+GF15%,V-1,BK0	1	SNA	
..3		BN68-07838D	INLAY-TERMINAL SIDE;55KU6000,PET,T0.125,	1	SNA	
1		BN90-08029D	ASSY W/I;LEDTV 6K	1	SNA	
0.2		BN81-08159Z	A/S PART SET-ELEC W/I;LED TV ELEC spec-C	1	SNA	
0.2		BN81-12184B	A/S PART SET-MECH W/I;UKU6000P,U60KP*	1	SNA	
1	M0017	BN91-17279Y	ASSY CHASSIS;LEDTV 6K	1	SNA	
0.2	M0014	BN94-10802X	ASSY PCB MAIN;LEDTV 6K	1	SA	
..3		BN62-00817A	HEAT SINK-PS;55KU6000,A1050,T1.5,W115,L1	1	SNA	
..3		BN63-15236A	COVER-TERMINAL SIDE;55KU6000,HIPS,MOLD,H	1	SA	
..3	T0527	BN68-00513A	LABEL-E PASS;ALL MODEL,WW,YUPO,W50,L15,W	1	SNA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3		BN97-10648X	ASSY SMD;LED TV 6K	1	SNA	
...4		0202-001976	SOLDER-CREAM;LST-309M-K21,20~38um,96.5Sn	4	SNA	
...4	DS01A	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	SA	
...4		0403-001164	DIODE-ZENER;MMSZ5232B,5.32~5.88V,500mW,S	1	SA	
...4		0403-001783	DIODE-ZENER;BZB84-C6V2,5.8~6.6V,300mW,SO	3	SNA	
...4		0403-001831	DIODE-ZENER;KDZ12B,12~13.5V,1000mW,SOD-1	2	SA	
...4		0404-001307	DIODE-SCHOTTKY;SSC54,40V,5000mA,DO-214AB	1	SA	
...4		0404-001404	DIODE-SCHOTTKY;BAT721C,40V,200mA,SOT-23,	4	SA	
...4		0404-001640	DIODE-SCHOTTKY;SS1060HEWS,60V,1000mA,S OD	1	SA	
...4		0404-001881	DIODE-SCHOTTKY;SS3040-HE,40V,3000mA,SOD-	1	SA	
...4		0404-001953	DIODE-SCHOTTKY;MBRA340F-HAF,40V,3000mA,S	3	SA	
...4		0406-001200	DIODE-TVS;RClamp0504F,6V,1MAV,TP	2	SA	
...4		0406-001628	DIODE-TVS;AOZ8804ADI,6V,1MAV,5A,TP	1	SA	
...4		0406-001635	DIODE-TVS;SMF5.0A,6.4V,6.7V,7V,200MAV,20	1	SA	
...4		0406-001643	DIODE-TVS;1SMA33AT3G,36.7V,38.65V,40.6V,	1	SNA	
...4		0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23,	1	SNA	
...4		0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	7	SC	
...4		0502-001346	TR-POWER;FCX591A,PNP,1000mW,SOT89,TR,30/	1	SA	
...4		0504-000126	TR-DIGITAL;KSR1101,NPN,200mW,4.7K/4.7K,S	1	SA	
...4		0505-001844	FET-SILICON;SI4435DDY-T1-GE3,P,30V,-11.4	1	SA	
...4		0505-002560	FET-SILICON;AO6415,P,20V,-3.3A,0.15ohm,1	1	SA	
...4		0505-002598	FET-SILICON;AP2317GN,P,20V,-4.2A,0.052oh	1	SA	
...4		0505-002660	FET-SILICON;Si2308BDS,N,60V,2.3A,0.156oh	1	SNA	
...4		0505-002893	FET-SILICON;AO4801AS,P,30V,-5A,2W,SOIC-8	2	SA	
...4		0505-003205	FET-SILICON;DMG4435SSS-13,P,30V,-7.3A,1.	1	SA	
...4		0505-003391	FET-SILICON;AOD2922,N,100V,8A,140Mohm,18	1	SA	
...4		0505-003397	FET-SILICON;2N7002K,N,60V,0.38A,1.19ohm,	1	SA	
...4		0505-003507	FET-SILICON;AO3424,N,30V,3.8A,1.4W,SOT-2	5	SA	
...4		1001-001998	IC-ANALOG MULTIPLEX;NX3DV221GM,USB switc	2	SA	
...4		1103-001564	IC-EEPROM;S-24C512CI-J800,512Kbit,64Kx8,	1	SA	
...4		1105-002704	IC-DDR4 SDRAM;K4F8E304HB-MGCH,LPDDR4- SDR	2	SA	
...4		1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DUAL,10	1	SA	
...4		1201-003690	IC-AUDIO AMP;TAS5747PHPR,QFP,48P,DUAL,PL	1	SA	
...4		1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA	
...4		1203-008102	IC-POSIFIXED REG.;S-13A1D12-E800,HSOP,8	1	SNA	
...4		1203-008104	IC-POSIFIXED REG.;S-13A1D18-E800,HSOP,8	1	SNA	
...4		1203-008105	IC-POSIFIXED REG.;S-13A1D33-E800,HSOP,8	1	SNA	
...4		1203-008319	IC-DC/DC CONVERTER;BM81233,QFN,32P,5x5mm	1	SNA	
...4		1203-008391	IC-DC/DC CONVERTER;AOZ1269QI-02,QFN-23L,	1	SA	
...4		1203-008392	IC-VOL. DETECTOR;S-6414AAB-L800X,TSOT-23	1	SA	
...4		1203-008454	IC-DC/DC CONVERTER;TPS56528,HSOP8,8,4,89	2	SA	
...4		1203-008522	IC-DC/DC CONVERTER;SN1501019DDCR,SOT-23,	2	SNA	
...4		1203-008655	IC-DC/DC CONVERTER;BM81249MWW,QFN,56,7x7	1	SA	
...4		1203-008732	IC-DC/DC CONVERTER;SYD104ADC,TSOT-23,6,3	1	SA	
...4		1203-008733	IC-DC/DC CONVERTER;AOZ1236QI-02,QFN,23,4	2	SA	
...4		1204-003697	IC-DECODER;SDP1531,FCPBGA,1046P,31x31,GL	1	SA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		1205-004822	IC-SWITCH;TPS22965DSGR,SON,8P,2x2x0.75mm	3	SNA	
...4		1205-005325	IC-REPEATER;PS8409QFN48GTR2-A1,QFN,48P,6	1	SNA	
...4		1205-005519	IC-SWITCH;ET20163,SOT23-5,5P,2.95x3.02mm	2	SA	
...4		1405-001232	VARISTOR;6.4V,5.6Vdc,30A,1.6x0.8mm,TP,19	2	SNA	
...4		1405-001271	VARISTOR;35V,20Vdc,5A,1.0x0.5mm,TP,100V,	15	SA	
...4		1405-001381	VARISTOR;11V,8VDC,30A,1.6x0.8mm,TP,25V,5	2	SA	
...4		1405-001382	VARISTOR;24.5V,16VDC,120A,2.0x1.25mm,TP,	1	SA	
...4		2007-000039	R-CHIP;0ohm,1%,1/10W,TP,1608	7	SA	
...4		2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	2	SA	
...4		2007-000066	R-CHIP;20Kohm,1%,1/10W,TP,1608	1	SNA	
...4		2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	6	SA	
...4		2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	16	SA	
...4		2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	29	SA	
...4		2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	3	SA	
...4		2007-000683	R-CHIP;3.3Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-000726	R-CHIP;300ohm,1%,1/10W,TP,1608	3	SA	
...4		2007-000736	R-CHIP;30Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	3	SA	
...4		2007-000999	R-CHIP;510ohm,1%,1/10W,TP,1608	1	SA	
...4		2007-001125	R-CHIP;68Kohm,1%,1/10W,TP,1608	2	SA	
...4		2007-001288	R-CHIP;18ohm,5%,1/16W,TP,1005	4	SA	
...4		2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	26	SA	
...4		2007-001298	R-CHIP;51ohm,5%,1/16W,TP,1005	10	SNA	
...4		2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	14	SNA	
...4		2007-007131	R-CHIP;13Kohm,1%,1/16W,TP,1005	4	SA	
...4		2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	64	SNA	
...4		2007-007137	R-CHIP;1.2Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-007138	R-CHIP;27Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-007139	R-CHIP;47Kohm,1%,1/16W,TP,1005,T0.35	14	SA	
...4		2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	26	SA	
...4		2007-007306	R-CHIP;100ohm,1%,1/16W,TP,1005	25	SNA	
...4		2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005,T0.35	1	SA	
...4		2007-007310	R-CHIP;8.2Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005	11	SA	
...4		2007-007313	R-CHIP;6.8Kohm,1%,1/16W,TP,1005	4	SA	
...4		2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	13	SA	
...4		2007-007334	R-CHIP;200Kohm,1%,1/16W,TP,1005	5	SA	
...4		2007-007488	R-CHIP;75Kohm,1%,1/16W,TP,1005	5	SNA	
...4		2007-007517	R-CHIP;240ohm,1%,1/16W,TP,1005	6	SNA	
...4		2007-007528	R-CHIP;1.5Kohm,1%,1/16W,TP,1005	5	SA	
...4		2007-007720	R-CHIP;300Kohm,1%,1/10W,TP,1608	1	SA	
...4		2007-007723	R-CHIP;75Kohm,1%,1/10W,TP,1608	2	SA	
...4		2007-007766	R-CHIP;2Kohm,1%,1/16W,TP,1005	19	SA	
...4		2007-007767	R-CHIP;200ohm,1%,1/16W,TP,1005	7	SA	
...4		2007-007798	R-CHIP;10ohm,1%,1/16W,TP,1005	8	SA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4		2007-007847	R-CHIP;16Kohm,1%,1/10W,TP,1608	5	SA	
...4		2007-007942	R-CHIP;1Mohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-007981	R-CHIP;180Kohm,1%,1/16W,TP,1005	1	SNA	
...4		2007-008015	R-CHIP;75ohm,1%,1/16W,TP,1005	9	SA	
...4		2007-008263	R-CHIP;3Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-008269	R-CHIP;51Kohm,1%,1/16W,TP,1005	3	SA	
...4		2007-008298	R-CHIP;49.9ohm,1%,1/16W,TP,1005	4	SA	
...4		2007-008391	R-CHIP;6.34Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-008596	R-CHIP;0.1ohm,1%,1/4W,TP,3216	2	SC	
...4		2007-008779	R-CHIP;0ohm,1%,1/16W,TP,1005	3	SA	
...4		2007-009117	R-CHIP;49.9Kohm,1%,1/16W,TP,1005	1	SA	
...4		2007-009322	R-CHIP;1.3Kohm,1%,1/16W,TP,1005	2	SA	
...4		2007-009777	R-CHIP;4.99Kohm,1%,1/16W,TP,1005	2	SA	
...4		2011-001264	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,2.	8	SNA	
...4	AD480	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,TP,1005	4	SA	
...4	AD480	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,TP,1005	5	SA	
...4	AD480	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,TP,1005	2	SA	
...4	AD480	2203-000359	C-CER,CHIP;0.15nF,5%,50V,C0G,TP,1005,0.5	3	SA	
...4	AD480	2203-000386	C-CER,CHIP;0.015nF,5%,50V,C0G,TP,1005	3	SA	
...4	AD480	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,TP,1005	10	SA	
...4	AD480	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1005	3	SA	
...4	AD480	2203-000585	C-CER,CHIP;0.22nF,10%,50V,X7R,TP,1005	3	SA	
...4	AD480	2203-000812	C-CER,CHIP;0.033nF,5%,50V,C0G,TP,1005	5	SA	
...4	AD480	2203-000838	C-CER,CHIP;0.39nF,5%,50V,C0G,TP,1608	1	SA	
...4	AD480	2203-000940	C-CER,CHIP;0.47nF,10%,50V,X7R,TP,1005	1	SA	
...4	AD480	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,TP,1005	5	SNA	
...4	AD480	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,TP,1608	1	SNA	
...4	AD480	2203-005054	C-CER,CHIP;0.0047nF,0.25pF,50V,NP0,TP,10	2	SA	
...4	AD480	2203-005083	C-CER,CHIP;220nF,10%,50V,X7R,TP,1608,0.8	6	SA	
...4	AD480	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	4	SA	
...4	AD480	2203-005968	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1005,0.5	2	SNA	
...4	AD480	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	8	SA	
...4	AD480	2203-006126	C-CER,CHIP;47nF,10%,16V,X7R,TP,1005	3	SNA	
...4	AD480	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,TP,1005,T0.	104	SA	
...4	AD480	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,TP,1608	16	SA	
...4	AD480	2203-006348	C-CER,CHIP;1000nF,10%,25V,X5R,TP,1608,0.	2	SA	
...4	AD480	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	27	SNA	
...4	AD480	2203-006698	C-CER,CHIP;1000nF,10%,25V,X7R,TP,1608,0.	7	SA	
...4	AD480	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,TP,1608	5	SNA	
...4	AD480	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,TP,1005	9	SA	
...4	AD480	2203-006844	C-CER,CHIP;470nF,10%,10V,X5R,TP,1005	2	SA	
...4	AD480	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,TP,1608	29	SNA	
...4	AD480	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012,1	23	SNA	
...4	AD480	2203-007240	C-CER,CHIP;22000nF,20%,6.3V,X5R,TP,1608(	72	SA	
...4	AD480	2203-007269	C-CER,CHIP;22000nF,20%,10V,X5R,TP,2012(2	12	SA	
...4	AD480	2203-007306	C-CER,CHIP;10000nF,10%,25V,X5R,TP,2012,1	36	SNA	
...4	AD480	2203-007513	C-CER,CHIP;10000nF,10%,10V,X5R,TP,1608,0	21	SA	

ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...4	AD480	2203-007544	C-CER,CHIP;100nF,10%,50V,X7R,TP,1005,0.5	36	SA	
...4	AD480	2203-008315	C-CER,CHIP;22000nF,20%,25V,X5R,TP,2012,1	4	SA	
...4		2402-001268	C-AL,SMD;100uF,20%,25V,WT,TP,8x6.3mm	1	SA	
...4		2409-001240	C-ORGANIC,SMD;33uF,20%,25V,LR,TP,7343(1.	1	SA	
...4		2409-001338	C-POLYMER ,CHIP;47uF,20%,6.3V,TP,3.2x1.6	1	SA	
...4		2703-000213	INDUCTOR-SMD;470nH,10%,1.35Ohm,35mA,15,M	1	SA	
...4		2703-001938	INDUCTOR-SMD;56nH,5%,1005,1.5Ohm,200mA,1	3	SA	
...4		2703-003149	INDUCTOR-SMD;2.2uH,20%,0.055Ohm,3000mA,W	1	SA	
...4		2703-003747	INDUCTOR-SMD;22uH,20%,6060,0.135ohm,1300	2	SA	
...4		2703-003862	INDUCTOR-SMD;10uH,20%,6060,0.065ohm,1900	3	SA	
...4		2703-003913	INDUCTOR-SMD;2.2uH,20%,2520,1.2T,0.116Oh	1	SNA	
...4		2703-003937	INDUCTOR-SMD;1uH,20%,7.0x6.47x3.0mm,0.00	3	SA	
...4		2703-004630	INDUCTOR-SMD;2.2uH,20%,5.0T,0.0025Ohm,66	1	SNA	
...4		2703-004724	INDUCTOR-SMD;8.2uH,20%,4T,0.072Ohm,2300m	4	SA	
...4		2703-005191	INDUCTOR-SMD;1.5uH,20%,4.5,0.02Ohm,5300m	1	SA	
...4		2703-005193	INDUCTOR-SMD;2.2uH,20%,4.5,0.024Ohm,5100	2	SA	
...4		2703-005376	INDUCTOR-SMD;10uH,20%,10x10.7mm,4.0T,0.0	1	SA	
...4		2801-004021	CRYSTAL-SMD;24.576MHz,20ppm,28-AAN,12pF,	1	SA	
...4		3301-001364	BEAD-SMD;1000ohm,1608,TP,1085ohm/108MHz,	6	SNA	
...4		3301-002039	BEAD-SMD;26ohm,1608,TP	32	SA	
...4		3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,PL	3	SA	
...4		3601-001376	FUSE-SURFACE MOUNT;32V,3A,FAST-ACTING,Hi	2	SNA	
...4		3701-001967	CONNECTOR-HDMI;19P,A,FEMALE,AU,0.5mm,BLK	3	SA	
...4		3707-001103	CONNECTOR-OPTICAL;ANGLE,SPDIF,2.5PI	1	SA	
...4		3708-003241	CONNECTOR-FPC/FFC/PIC;96P,0.5mm,SMD-A,AU	2	SNA	
...4		3711-002050	CONNECTOR-HEADER;BOX,10P,1R,1.25mm,SMD-A	1	SNA	
...4	EH01	3711-007803	HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm,	1	SA	
...4	EH01	3711-008098	HEADER-BOARD TO CABLE;BOX,20P,1R,1.25mm,	1	SNA	
...4	EH01	3711-008131	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	SA	
...4	EH01	3711-008859	HEADER-BOARD TO CABLE;BOX,12P,2R,2mm,ANG	1	SA	
...4		3711-009090	CONNECTOR-HEADER;BOX,16P,1R,1.25mm,SMD-A	1	SA	
...4		3722-003199	JACK-MODULAR;8P/8C,Y,ANGLE,NONE,AU,1PORT	1	SA	
...4		3722-003457	JACK-USB;4P/1C,NI,BLK,ANGLE,A,2.0,13.1x1	2	SA	
...4		3722-003814	JACK-PHONE;1P/7C,NI/SN,YEL,ANGLE,3.5PI,1	1	SA	
...4	JACK	3722-003873	JACK-PHONE;1P/7C,AU/SN,BLU,ANGLE,3.5PI,1	1	SA	
...4		6302-001376	GASKET-SMD;;;CONDUCTIVE FABRIC,T14,W43,L	7	SNA	
...4		BN40-00321B	TUNER-DTV AIR CABLE;GVTH-6A21,GVTH-6A21,	1	SA	
...4		BN41-02528A	PCB-MAIN;KU6000,FR-4,4L,1.6T,193x241mm,1	1	SNA	
...4	CB07	BN61-13312B	BRACKET-PCB;55KS8000,SK5,0.3,13.7,11.4,S	4	SNA	
...4		BN68-04746A	LABEL-SMD;all model,POLY*,polyester,comm	1	SNA	
...4		BN97-10863A	ASSY MICOM-SUB;JMMICOM_TV,UWP60,W25Q40CL	1	SNA	
....5		1107-002226	IC-NOR FLASH;W25Q40CLSSIP,4Mbit,SOIC,8P,	1	SA	
...4		BN97-10864A	ASSY MICOM-MAIN;T-JZL6AKUC,UWP60,KLM4G1F	1	SNA	
....5		1107-002374	IC-EMMC;KLM4G1FEPD-B031,4Gbyte,BGA,153P,	1	SNA	
...4		BN97-10931A	ASSY MICOM;TCON,KU6k,60-SHP-Flat,W25Q80D	1	SNA	
....5		1107-002339	IC-NOR FLASH;W25Q80DV,8Mbit,SOP,5.28x5.2	1	SNA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...5		BN46-00515A	S/W MICOM;Jazz M-L,TCON F/W	1	SNA	
...5		BN46-00528A	S/W MICOM;K60H1U0F,SHARP,60H6AU**K,Flat	1	SNA	
..3		BN97-10915A	ASSY DRM;JAZZ-L,ATSC,NagSam, MAC, HDCP	1	SNA	
...4		BN46-00109H	KEY CODE-CERTIFICATION;MAC,TV/AV,General	1	SNA	
...4		BN46-00110P	KEY CODE-CERTIFICATION;MIRACAST(HDCP2.2)	1	SNA	
...4		BN46-00499A	KEY CODE-CERTIFICATION;JAZZ-L,Nagra CSC	1	SNA	
1		BN91-17311A	ASSY SHIELD;LEDTV 6K	1	SNA	
0.2	SCREW	6001-003016	SCREW-MACHINE;PWH,+,M3.0,L5.0,ZPC(WHT),S	9	SA	
0.2		BN39-02025G	LEAD CONNECTOR-POWER;UN65KU6000,Flat Con	1	SA	
0.2	16P	BN39-02030F	LEAD CONNECTOR-BLU;BLU(75JU6400),UL21016	1	SNA	
0.2		BN39-02219A	LEAD CONNECTOR-SUB ASSY;55KU6500,UL21016	1	SA	
0.2		BN39-02220D	LEAD CONNECTOR-SUB ASSY;65KU6300,UL21016	1	SA	
0.2		BN44-00808D	DC VSS-PD BOARD;L65S6N_FSM W,AC/DC,262W,	1	SA	
0.2	WIFI	BN59-01239A	NETWORK-WLAN CLIENT;WCK730B,USB 2.0,16P,	1	SA	
0.2		BN61-09637A	HOLDER-WIFI;KU6000,ABS,BK0007,HB	1	SA	
0.2	CB18	BN61-11517A	BRACKET-STAND LINK;HGI-SGHC,T2,NATURAL	1	SNA	
..3		BN61-09605A	STUD-PEM;LED TV F6100,SUM24L,L8	4	SNA	
0.2	SP01A	BN96-35006C	ASSY SPEAKER P-FRONT;TV-SPK,JU7000,6ohm,	1	SA	
0.2	JOG	BN96-35345B	ASSY BOARD P-FUNCTION JOG;JU7500,CT15SE8	1	SA	
0.2		BN96-39903A	FFC CABLE;60KU6000,Fold,L650,96P	1	SA	
0.2		BN96-39904A	FFC CABLE;60KU6000,Fold,L550,96P	1	SA	
0.2		BN96-39955A	ASSY BOARD P-IR FUNCTION;KU6000,IR ASSY_	1	SA	
1		BN92-19878P	ASSY LABEL;LEDTV 6K	1	SNA	
0.2		BN68-05050A	LABEL-RATING;ALL MODEL,SS,PE,T0.05,W93,L	1	SNA	
0.2		BN68-07841A	LEAFLET-QUICK SETUP GUIDE;KU6300,ZA,W/P,	1	SNA	
0.2		BN68-07993N	LABEL-ENERGY;UN60KU630DFXZA,USA,PET,T0.1	1	SNA	
0.2		BN74-00053G	TAPE-PAPER;PAPER,3M2307,0.14T,W10,60M,WH	0	SNA	
1	ACCE1	BN92-19904A	ASSY ACCESSORY;LEDTV 6K	1	SNA	
0.2		BN96-31063A	ASSY ACCESSORY-MANUAL CABLE;LEDTV 6K	1	SNA	
..3	T0268	3903-001117	CBF-POWER CORD;DT,USA,Angle,2P(C7),125V,	1	SA	
..3		4301-000101	BATTERY-ALKALINE;1.5V,1650mAh,LR6,14.5x5	2	SNA	
..3		6902-001962	BAG PE;LDPE,BIOBASED,T0.05,W400,L300,TRP	1	SNA	
..3	EC03	BN39-02189A	GENDER CABLE;DC to RCA Cable,3P,L100,UL2	1	SA	
..3	EC03	BN39-02190A	GENDER CABLE;DC to RCA Cable,2P,L100,UL2	1	SA	
..3		BN59-01260A	REMOCON-SMART CONTROL;2016 TV,Samsung,13	1	SA	
..3		BN68-04972E	LEAFLET-REGULATORY GUIDE;ALL,SAMSUNG,W/W	1	SNA	
..3		BN68-05723A	LABEL-ACCESSORY;ALL MODELS,YUPO,T0.2,W20	1	SNA	
..3		BN68-07842A	MANUAL USERS;KU6300,ZA,W/P,00	1	SNA	
1		BN92-19938A	ASSY P/MATERIAL;LEDTV 6K	1	SNA	
0.2		6902-001960	BAG ROLL;HDPE/PE FOAM+HDPE,T0.015/T0.5,W	2	SNA	
0.2		6922-000013	BAND;PP,W18,L2300/L2900,TRP	1	SNA	
0.2		BH69-00418A	WRAP;762,1828M,SAMEX FACTORY	3	SNA	
0.2		BN02-00319B	TAPE-OPP;OPP,T0.05,W75,L800m,CLEAR	4	SNA	
0.2		BN68-02422B	LABEL-WARNING;ALL,ART,T0.05,W240,L100,Wh	1	SNA	
0.2		BN69-12806A	PACKING ANGLE;40J6400,PAPER	1	SNA	
0.2		BN69-13281A	CUSHION-SET;KU6000 60",EPS,16.7g/l,WHT,V	1	SNA	

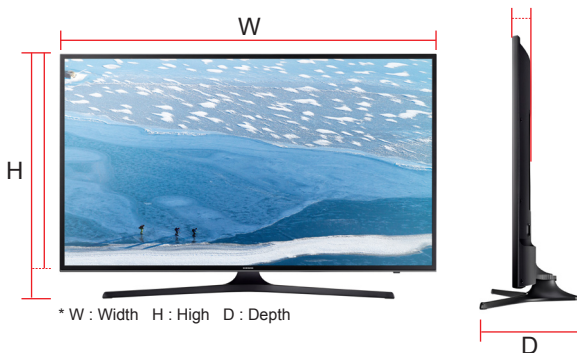
ANNEX. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
0.2		BN69-13285A	CUSHION-SET SIDE;KU6000 60",EPS,16.7g/l,	1	SNA	
0.2		BN69-13462A	PAD-SHEET FRONT;60KS7000,CB,DW2,W751,L13	1	SNA	
1		BN92-20389A	ASSY BOX;UKU6000P	1	SNA	
0.2		BH68-00697A	LABEL BOX;ALL,ART,90g,W60,L100,WHT,NO SI	1	SNA	
0.2		BN69-13441R	BOX UNIT;60KU630D,CB,DW3,F1,L1620,W160,H	1	SNA	
1	PANEL	BN95-02639A	PRODUCT LCD-SHARP;CY-GK060HGSV1V/ H,KU600	1	SA	
0.2	SCREW	6001-002757	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	4	SA	
0.2		BN68-05595A	LABEL-STICKER;ART 100G,T0.2,W80X23,WHITE	1	SNA	
0.2		BN90-08169V	ASSY MISC-BLU;2016_LCM	1	SNA	
..3		BN61-12745A	DIFFUSER PLATE;15Y_J7K 60INCH_DIFFUSER P	1	SNA	
..3		BN61-12993A	SUPPORT-PLATE;Y15 LED(SAMEX ONLY),PC,V-2	22	SNA	
..3		BN61-13366A	FRAME-MIDDLE TOP;60KU6300,TPV,HB,BK0008	1	SNA	
..3		BN61-13374A	FRAME-MIDDLE BOTTOM;60KU6300,TPV,HB,BK00	1	SNA	
..3		BN61-13382A	FRAME-MIDDLE LEFT RIGHT;60KU6300,TPV,HB,	2	SNA	
..3		BN63-13518A	OPTICAL SHEET-REFLECTOR;15Y JU7.0K 60inc	1	SNA	
..3		BN63-14778A	OPTICAL SHEET-COMPLEX;15Y JU6.0K 60inch	1	SNA	
..3		BN63-14779A	OPTICAL SHEET-MLS;15Y JU6K 60inch UTE23B	1	SNA	
..3		BN96-35788C	ASSY CHASSIS REAR P;60KU6000,EGI SECC AG	1	SNA	
...4		0203-006897	TAPE-DOUBLE FACE;SI,T1,W10,L50,WHT	1	SNA	
...4	SCREW	6001-002757	SCREW-MACHINE;BH,+,M3,L4,ZPC(WHT),SWRCH1	1	SA	
...4		BN02-00040C	TAPE DOUBLE FACE;F-LED ALL,PET,T0.3,W3,L	10	SNA	
...4		BN02-00102B	TAPE-FILAMENT;#8917,0.15,25,50,WHITE	0	SNA	
...4		BN02-00173C	TAPE-OPP;PET,0.05,40,BLK	0	SNA	
...4		BN02-00352E	TAPE-OPP;PET,T0.05,W15,L50M,BLK,ULNO.E16	0	SNA	
...4		BN61-09771A	HOLDER-SOURCE PCB;Y13 OLED CURVED 55",SW	1	SNA	
...4		BN61-11407A	FRAME-CHASSIS REAR TOP;Y15 JU7K 60",PC+G	1	SNA	
...4		BN61-11408A	FRAME-CHASSIS REAR BOTTOM;Y15 JU7K 60",P	1	SNA	
...4		BN61-11409A	FRAME-CHASSIS REAR LEFT RIGHT;Y15 JU7K 6	2	SNA	
...4		BN61-11836A	HOLDER-SOURCE PCB;Y15 JU7K INX,ABS,WHITE	8	SNA	
...4		BN61-11982A	HOLDER-WALL RIVET;Y15 F-LED,CR-SPCC,L15.	4	SNA	
...4		BN62-00690C	INSULATOR-SMPS;JU7500,PC,BLACK,L405,W255	1	SNA	
...4		BN63-14962A	GASKET-EMI;GASKET,FABRIC,T8,W15,L5,BLACK	2	SNA	
...4		BN63-15008A	GASKET-ESD;GASKET,FABRIC,T8,W20,L20,BLAC	3	SNA	
...4	CC04	BN64-02866B	CHASSIS-REAR;EGI-SECC,SECC-AG	1	SNA	
...4		BN96-34711A	ASSY PCB P-LED INTERFACE BOARD;60JU6400,	1	SNA	
...4		BN96-39663A	ASSY LED BAR P;60inch_KU6000_Sharp_L,CEM	8	SNA	
...4		BN96-39664A	ASSY LED BAR P;60inch_KU6000_Sharp_R,CEM	8	SNA	
0.2		BN96-35019B	ASSY COVER P-SOURCE PCB LEFT;60KU6000,EG	1	SNA	
..3		BN63-13206B	COVER-SOURCE PCB LEFT;60KU6000,EGI-SECC,	1	SNA	
..3		BN63-15734A	INSULATOR-SOURCE PCB COVER LEFT;60KU6000	1	SNA	
0.2		BN96-35597E	ASSY CHASSIS FRONT P;60KU6300,PC+ABS+MF1	1	SNA	
..3		BN02-00381S	TAPE CONDUCTIVE;Y15 UHD Flat 60",CONDUCT	2	SNA	
..3		BN02-00381T	TAPE CONDUCTIVE;Y15 UHD Flat 60",CONDUCT	2	SNA	
..3		BN60-00715A	SPACER-CONDUCTIVE;Y13 Slim F-LED,CONDUCT	2	SNA	
..3		BN60-01115A	SPACER-CONDUCTIVE;Y15 JU8K,CONDUCTIVE FA	3	SNA	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
..3	FD01	BN63-13308E	COVER-DECORATION;JU6000 60IN,ABS+PC+MF17	1	SNA	
..3		BN63-14373E	SHEET-PROTECTION COVER;AL,T0.068,W33,ROL	5	SNA	
..3	AC155	BN64-03412A	CHASSIS-FRONT;PC+ABS+MF15%,V-1,V1	1	SNA	
0.2		BN96-36283B	ASSY COVER P-SOURCE PCB RIGHT;60KU6000,E	1	SNA	
..3		BN63-13207B	COVER-SOURCE PCB RIGHT;60KU6000,EGI-SECC	1	SNA	
..3		BN63-15725A	INSULATOR-SOURCE PCB COVER RIGHT;60KU600	1	SNA	
0.2		BN96-39208A	ASSY OPEN CELL;LQ601R3HB2K,16:9,12	1	SNA	
..3		BN81-11329A	A/S-POLARIZER TFT;LQ601R3HA5K,PFILV2044T	1	SNA	
..3		BN81-11340A	A/S-POLARIZER CF;LQ601R3HA6K,PFILV2043TP	1	SNA	
..3		BN81-12843A	A/S-IC DRIVER GATE;SHARP 60inch UD 120Hz	1	SNA	
..3		BN81-12845A	A/S-ASSY PCB-SOURCE LEFT-RIGHT;SHARP 60i	1	SNA	
..3		BN81-12846A	A/S-ASSY PCB-SOURCE LEFT-LEFT;SHARP 60in	1	SNA	
..3		BN81-12847A	A/S-ASSY PCB-SOURCE RIGHT-LEFT;SHARP 60i	1	SNA	
..3		BN81-12848A	A/S-ASSY PCB-SOURCE RIGHT-RIGHT;SHARP 60	1	SNA	
..3		BN81-13134A	A/S-IC DRIVER SOURCE;IC DRIVER SOURCE,VH	1	SNA	

2. Product Specifications

2-1. Product information

Model	UN**KU630DF		
Front View	 * W : Width H : High D : Depth		
Detail View			
Front Color	Black		
Dimension (WxHxD)	40"	Body	36.1 x 21.1 x 2.5 inches (917.7 x 535.7 x 62.6 mm)
		With stand	36.1 x 23.5 x 11.3 inches (917.7 x 596.5 x 288.1 mm)
	43"	Body	38.4 x 22.4 x 2.5 inches (975.8 x 569.0 x 62.6 mm)
		With stand	38.4 x 25.1 x 11.3 inches (975.8 x 637.0 x 288.1 mm)
	50"	Body	44.4 x 25.8 x 2.5 inches (1128.9 x 654.4 x 63.2 mm)
		With stand	44.4 x 28.5 x 12.2 inches (1128.9 x 723.7 x 310.5 mm)
	55"	Body	48.9 x 28.3 x 2.5 inches (1242.6 x 718.4 x 63.2 mm)
		With stand	48.9 x 31.0 x 12.2 inches (1242.6 x 787.5 x 310.5 mm)
	60"	Body	53.7 x 31.1 x 2.5 inches (1363.6 x 789.5 x 64.0 mm)
		With stand	53.7 x 33.6 x 14.5 inches (1363.6 x 852.8 x 369.4 mm)
	65"	Body	57.6 x 33.2 x 2.5 inches (1463.5 x 844.5 x 64.6 mm)
		With stand	57.6 x 35.7 x 14.5 inches (1463.5 x 907.6 x 369.4 mm)

2. Product specifications

Model	UN**KU630DF		
Weight	40"	Without Stand	17.0 lbs (7.7 kg)
		With stand	19.0 lbs (8.6 kg)
	43"	Without Stand	19.4 lbs (8.8 kg)
		With stand	21.4 lbs (9.7 kg)
	50"	Without Stand	26.9 lbs (12.2 kg)
		With stand	29.1 lbs (13.2 kg)
	55"	Without Stand	33.1 lbs (15 kg)
		With stand	35.3 lbs (16 kg)
	60"	Without Stand	46.1 lbs (20.9 kg)
		With stand	50.5 lbs (22.9 kg)
	65"	Without Stand	52.2 lbs (23.7 kg)
		With stand	56.9 lbs (25.8 kg)

2-2. Detail Specification

	Item	UN40KU630DFXZA
General Information	Product	LED
	Series	6
	Country	UNITED STATES
	Platform(TV)	SoC Jazz-L
Display	Screen Size	40"
	Resolution	3,840 × 2,160
	Ultra Black	N/A
	Quantum Dot Display	N/A
	Ultra Clear Panel	Ultra Clear
	Screen Curvature	N/A
	10 bit Support	N/A
Video	Picture Engine	UHD Up-Scaling
	Motion Rate	120
	PQI (Picture Quality Index)	1300
	HDR (High Dynamic Range)	HDR Pro
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	UHD Dimming
	Precision Black (Local Dimming)	N/A
	Quantum Dot Color	N/A
	Active Crystal Color	N/A
	Wide Color Enhancer (Plus)	N/A
	PurColor	Yes
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	Yes
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	DTS Codec	Yes
	Sound Output (RMS)	20W
	Speaker Type	2CH(Down Firing w/Bass Reflex)
	Woofer	N/A
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
	TV SoundConnect	Yes
	BT Headset Support	Yes

2. Product specifications

Item		UN40KU630DFXZA
Smart TV	Samsung SMART TV	Yes
	Apps	Yes
	Games	N/A
	Cloud Game	Yes
	Billing	Yes
	EXTRA	Yes
	TV Plus	N/A
	Automated Content Recognition (ACR)	Yes
	Skype™ on Samsung TV	N/A
	Web Browser	Yes
Smart Interaction	Voice Recognition	N/A
Convergence	TV to Mobile - Mirroring	Yes
	Mobile to TV - Mirroring, DLNA	Yes
	Family Square with S-Cloud	N/A
	Together Play	N/A
	Easy Setup	Yes
	Samsung SMART View	Yes
	App Casting	Yes
	Wireless TV On - Samsung WOL	Yes
	Wired TV On - Samsung WOL	Yes
	Bluetooth Low Energy	Yes
	Briefing On TV	Yes
	RVU	Yes
	WiDi	N/A
	WiFi Direct	Yes
IoT Service	TV as Hub Support	N/A
	TV as Things Support	Yes
	IoT Client Application	N/A
Tuner/Broadcasting	Digital Broadcasting	ATSC
	Analog Tuner	Yes
Connectivity	HDMI	3
	USB	2
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1(Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1

Item		UN40KU630DFXZA
Connectivity	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes
	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	JU6000
	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V-Shape
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	Instant On	Yes
	Processor	Quad-Core
	SCSA Support	N/A
	Accessibility	Voice Guide/Enlarge/High Contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	English, Spanish, French
	BT HID Built-in	Yes
	USB HID Support	Yes

2. Product specifications

Item		UN40KU630DFXZA
Additional Feature	Smart Evolution Support	N/A
	Teletext (TTX)	N/A
	Time Shift	N/A
	V-Chip	Yes
	MBR Support	Yes
	Ultra Clean View	Yes
Eco Feature	Energy Star	Yes
	Eco Sensor	Yes
	Energy Efficiency Class	N/A
Power	Power Supply	AC110-120V 60Hz
	Power Consumption (Max)	115 W
	Power Consumption (Stand-by)	0.3 W
	Power Consumption (Typical)	45 W

Item		UN43KU630DFXZA
General Information	Product	LED
	Series	6
	Country	UNITED STATES
	Platform(TV)	SoC Jazz-L
Display	Screen Size	43"
	Resolution	3,840 × 2,160
	Ultra Black	N/A
	Quantum Dot Display	N/A
	Ultra Clear Panel	Ultra Clear
	Screen Curvature	N/A
	10 bit Support	N/A
Video	Picture Engine	UHD Up-Scaling
	Motion Rate	MR 120
	PQI (Picture Quality Index)	N/A
	HDR (High Dynamic Range)	HDR Premium
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	UHD Dimming
	Precision Black (Local Dimming)	N/A
	Quantum Dot Color	N/A
	Active Crystal Color	N/A
	Wide Color Enhancer (Plus)	N/A
	PurColor	Yes
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	Yes
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	DTS Codec	Yes
	Sound Output (RMS)	20W
	Speaker Type	2CH(Down Firing w/Bass Reflex)
	Woofer	N/A
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
	TV SoundConnect	Yes
	BT Headset Support	Yes

2. Product specifications

Item		UN43KU630DFXZA
Smart TV	Samsung SMART TV	Yes
	Apps	Yes
	Games	N/A
	Cloud Game	Yes
	Billing	Yes
	EXTRA	Yes
	TV Plus	N/A
	Automated Content Recognition (ACR)	Yes
	Skype™ on Samsung TV	N/A
	Web Browser	Yes
Smart Interaction	Voice Recognition	N/A
Convergence	TV to Mobile - Mirroring	Yes
	Mobile to TV - Mirroring, DLNA	Yes
	Family Square with S-Cloud	N/A
	Together Play	N/A
	Easy Setup	N/A
	Samsung SMART View	Yes
	App Casting	Yes
	Wireless TV On - Samsung WOL	Yes
	Wired TV On - Samsung WOL	Yes
	Bluetooth Low Energy	Yes
	Briefing On TV	Yes
	RVU	Yes
	WiDi	N/A
	WiFi Direct	Yes
IoT Service	TV as Hub Support	N/A
	TV as Things Support	Yes
	IoT Client Application	N/A
Tuner/Broadcasting	Digital Broadcasting	ATSC
	Analog Tuner	Yes
Connectivity	HDMI	3
	USB	2
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1(Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1

Item		UN43KU630DFXZA
Connectivity	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes
	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	JU6400 Vari.
	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V feet-JS7000 (Dark Titan)
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	Instant On	Yes
	Processor	Quad-Core
	SCSA Support	N/A
	Accessibility	Voice Guide/Enlarge/High Contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	English, Spanish, French
	BT HID Built-in	Yes
	USB HID Support	Yes

2. Product specifications

Item		UN43KU630DFXZA
Additional Feature	Smart Evolution Support	N/A
	Teletext (TTX)	N/A
	Time Shift	N/A
	V-Chip	Yes
	MBR Support	Yes
	Ultra Clean View	Yes
Eco Feature	Energy Star	TBD
	Eco Sensor	Yes
	Energy Efficiency Class	N/A

Item		UN50KU630DFXZA
General Information	Product	LED
	Series	6
	Country	UNITED STATES
	Platform(TV)	SoC Jazz-L
Display	Screen Size	50"
	Resolution	3,840 × 2,160
	Ultra Black	N/A
	Quantum Dot Display	N/A
	Ultra Clear Panel	Ultra Clear
	Screen Curvature	N/A
	10 bit Support	N/A
Video	Picture Engine	UHD Up-Scaling
	Motion Rate	MR 120
	PQI (Picture Quality Index)	N/A
	HDR (High Dynamic Range)	HDR Premium
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	UHD Dimming
	Precision Black (Local Dimming)	N/A
	Quantum Dot Color	N/A
	Active Crystal Color	N/A
	Wide Color Enhancer (Plus)	N/A
	PurColor	Yes
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	Yes
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	DTS Codec	Yes
	Sound Output (RMS)	20W
	Speaker Type	2CH(Down Firing w/Bass Reflex)
	Woofer	N/A
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
	TV SoundConnect	Yes
	BT Headset Support	Yes

2. Product specifications

Item		UN50KU630DFXZA
Smart TV	Samsung SMART TV	Yes
	Apps	Yes
	Games	N/A
	Cloud Game	Yes
	Billing	Yes
	EXTRA	Yes
	TV Plus	N/A
	Automated Content Recognition (ACR)	Yes
	Skype™ on Samsung TV	N/A
	Web Browser	Yes
Smart Interaction	Voice Recognition	N/A
Convergence	TV to Mobile - Mirroring	Yes
	Mobile to TV - Mirroring, DLNA	Yes
	Family Square with S-Cloud	N/A
	Together Play	N/A
	Easy Setup	N/A
	Samsung SMART View	Yes
	App Casting	Yes
	Wireless TV On - Samsung WOL	Yes
	Wired TV On - Samsung WOL	Yes
	Bluetooth Low Energy	Yes
	Briefing On TV	Yes
	RVU	Yes
	WiDi	N/A
	WiFi Direct	Yes
IoT Service	TV as Hub Support	N/A
	TV as Things Support	Yes
	IoT Client Application	N/A
Tuner/Broadcasting	Digital Broadcasting	ATSC
	Analog Tuner	Yes
Connectivity	HDMI	3
	USB	2
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1(Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1

Item		UN50KU630DFXZA
Connectivity	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes
	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	JU6400 Vari.
	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V feet-JS7000 (Dark Titan)
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	Instant On	Yes
	Processor	Quad-Core
	SCSA Support	N/A
	Accessibility	Voice Guide/Enlarge/High Contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	English, Spanish, French
	BT HID Built-in	Yes
	USB HID Support	Yes

2. Product specifications

Item		UN50KU630DFXZA
Additional Feature	Smart Evolution Support	N/A
	Teletext (TTX)	N/A
	Time Shift	N/A
	V-Chip	Yes
	MBR Support	Yes
	Ultra Clean View	Yes
Eco Feature	Energy Star	Yes
	Eco Sensor	Yes
	Energy Efficiency Class	N/A
Power	Power Supply	AC110-120V 50/60Hz
	Power Consumption (Max)	180 W
	Power Consumption (Stand-by)	0.3 W
	Power Consumption (Typical)	58 W

Item		UN55KU630DFXZA
General Information	Product	LED
	Series	6
	Country	UNITED STATES
	Platform(TV)	SoC Jazz-L
Display	Screen Size	55"
	Resolution	3,840 × 2,160
	Ultra Black	N/A
	Quantum Dot Display	N/A
	Ultra Clear Panel	Ultra Clear
	Screen Curvature	N/A
	10 bit Support	N/A
Video	Picture Engine	UHD Up-Scaling
	Motion Rate	MR 120
	PQI (Picture Quality Index)	N/A
	HDR (High Dynamic Range)	HDR Premium
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	UHD Dimming
	Precision Black (Local Dimming)	N/A
	Quantum Dot Color	N/A
	Active Crystal Color	N/A
	Wide Color Enhancer (Plus)	N/A
	PurColor	Yes
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	Yes
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	DTS Codec	Yes
	Sound Output (RMS)	20W
	Speaker Type	2CH(Down Firing w/Bass Reflex)
	Woofer	N/A
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
	TV SoundConnect	Yes
	BT Headset Support	Yes

2. Product specifications

Item		UN55KU630DFXZA
Smart TV	Samsung SMART TV	Yes
	Apps	Yes
	Games	N/A
	Cloud Game	Yes
	Billing	Yes
	EXTRA	Yes
	TV Plus	N/A
	Automated Content Recognition (ACR)	Yes
	Skype™ on Samsung TV	N/A
	Web Browser	Yes
Smart Interaction	Voice Recognition	N/A
Convergence	TV to Mobile - Mirroring	Yes
	Mobile to TV - Mirroring, DLNA	Yes
	Family Square with S-Cloud	N/A
	Together Play	N/A
	Easy Setup	N/A
	Samsung SMART View	Yes
	App Casting	Yes
	Wireless TV On - Samsung WOL	Yes
	Wired TV On - Samsung WOL	Yes
	Bluetooth Low Energy	Yes
	Briefing On TV	Yes
	RVU	Yes
	WiDi	N/A
	WiFi Direct	Yes
IoT Service	TV as Hub Support	N/A
	TV as Things Support	Yes
	IoT Client Application	N/A
Tuner/Broadcasting	Digital Broadcasting	ATSC
	Analog Tuner	Yes
Connectivity	HDMI	3
	USB	2
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1(Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1

Item		UN55KU630DFXZA
Connectivity	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes
	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	JU6400 Vari.
	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V feet-JS7000 (Dark Titan)
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	Instant On	Yes
	Processor	Quad-Core
	SCSA Support	N/A
	Accessibility	Voice Guide/Enlarge/High Contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	English, Spanish, French
	BT HID Built-in	Yes
	USB HID Support	Yes

2. Product specifications

Item		UN55KU630DFXZA
Additional Feature	Smart Evolution Support	N/A
	Teletext (TTX)	N/A
	Time Shift	N/A
	V-Chip	Yes
	MBR Support	Yes
	Ultra Clean View	Yes
Eco Feature	Energy Star	Yes
	Eco Sensor	Yes
	Energy Efficiency Class	N/A
Power	Power Supply	AC110-120V 50/60Hz
	Power Consumption (Max)	190 W
	Power Consumption (Stand-by)	0.3 W
	Power Consumption (Typical)	60 W

Item		UN60KU630DFXZA
General Information	Product	LED
	Series	6
	Country	UNITED STATES
	Platform(TV)	SoC Jazz-L
Display	Screen Size	60"
	Resolution	3,840 × 2,160
	Ultra Black	N/A
	Quantum Dot Display	N/A
	Ultra Clear Panel	Ultra Clear
	Screen Curvature	N/A
	10 bit Support	N/A
Video	Picture Engine	UHD Up-Scaling
	Motion Rate	MR 120
	PQI (Picture Quality Index)	N/A
	HDR (High Dynamic Range)	HDR Premium
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	UHD Dimming
	Precision Black (Local Dimming)	N/A
	Quantum Dot Color	N/A
	Active Crystal Color	N/A
	Wide Color Enhancer (Plus)	N/A
	PurColor	Yes
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	Yes
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	DTS Codec	Yes
	Sound Output (RMS)	20W
	Speaker Type	2CH(Down Firing w/Bass Reflex)
	Woofer	N/A
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
	TV SoundConnect	Yes
	BT Headset Support	Yes

2. Product specifications

Item		UN60KU630DFXZA
Smart TV	Samsung SMART TV	Yes
	Apps	Yes
	Games	N/A
	Cloud Game	Yes
	Billing	Yes
	EXTRA	Yes
	TV Plus	N/A
	Automated Content Recognition (ACR)	Yes
	Skype™ on Samsung TV	N/A
	Web Browser	Yes
Smart Interaction	Voice Recognition	N/A
Convergence	TV to Mobile - Mirroring	Yes
	Mobile to TV - Mirroring, DLNA	Yes
	Family Square with S-Cloud	N/A
	Together Play	N/A
	Easy Setup	N/A
	Samsung SMART View	Yes
	App Casting	Yes
	Wireless TV On - Samsung WOL	Yes
	Wired TV On - Samsung WOL	Yes
	Bluetooth Low Energy	Yes
	Briefing On TV	Yes
	RVU	Yes
	WiDi	N/A
	WiFi Direct	Yes
IoT Service	TV as Hub Support	N/A
	TV as Things Support	Yes
	IoT Client Application	N/A
Tuner/Broadcasting	Digital Broadcasting	ATSC
	Analog Tuner	Yes
Connectivity	HDMI	3
	USB	2
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1(Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1

Item		UN60KU630DFXZA
Connectivity	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes
	Wireless LAN Adapter Support	N/A
	Wireless LAN Built-in	Yes
	Anynet+ (HDMI-CEC)	Yes
Design	Design	JU6400 Vari.
	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V feet-JS7000 (Dark Titan)
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	Instant On	Yes
	Processor	Quad-Core
	SCSA Support	N/A
	Accessibility	Voice Guide/Enlarge/High Contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	English, Spanish, French
	BT HID Built-in	Yes
	USB HID Support	Yes

2. Product specifications

Item		UN60KU630DFXZA
Additional Feature	Smart Evolution Support	N/A
	Teletext (TTX)	N/A
	Time Shift	N/A
	V-Chip	Yes
	MBR Support	Yes
	Ultra Clean View	Yes
Eco Feature	Energy Star	Yes
	Eco Sensor	Yes
	Energy Efficiency Class	N/A
Power	Power Supply	AC110-120V 50/60Hz
	Power Consumption (Max)	240 W
	Power Consumption (Stand-by)	0.3 W
	Power Consumption (Typical)	70 W

Item		UN65KU630DFXZA
General Information	Product	LED
	Series	6
	Country	UNITED STATES
	Platform(TV)	SoC Jazz-L
Display	Screen Size	65"
	Resolution	3,840 × 2,160
	Ultra Black	N/A
	Quantum Dot Display	N/A
	Ultra Clear Panel	Ultra Clear
	Screen Curvature	N/A
	10 bit Support	N/A
Video	Picture Engine	UHD Up-Scaling
	Motion Rate	MR 120
	PQI (Picture Quality Index)	N/A
	HDR (High Dynamic Range)	HDR Premium
	Dynamic Contrast Ratio	Mega Contrast
	Micro Dimming	UHD Dimming
	Precision Black (Local Dimming)	N/A
	Quantum Dot Color	N/A
	Active Crystal Color	N/A
	Wide Color Enhancer (Plus)	N/A
	PurColor	Yes
	Auto Depth Enhancer	N/A
	Contrast Enhancer	Yes
	Auto Motion Plus	Yes
	Film Mode	Yes
	Natural Mode Support	Yes
	Peak Illuminator	N/A
Audio	Dolby Digital Plus	Yes
	DTS Codec	Yes
	Sound Output (RMS)	20W
	Speaker Type	2CH(Down Firing w/Bass Reflex)
	Woofer	N/A
	Wallmount Sound Mode	Yes
	Multiroom Link	Yes
	TV SoundConnect	Yes
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	Billing	Yes
	EXTRA	Yes
	TV Plus	N/A
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	Skype™ on Samsung TV	N/A
	Web Browser	Yes
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	Mobile to TV - Mirroring, DLNA	Yes
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	App Casting	Yes
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	Wired TV On - Samsung WOL	Yes
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	Briefing On TV	Yes
	RVU	Yes
	WiDi	N/A
	WiFi Direct	Yes
IoT Service	TV as Hub Support	N/A
	TV as Things Support	Yes
	IoT Client Application	N/A
Tuner/Broadcasting	Digital Broadcasting	ATSC
	Analog Tuner	Yes
Connectivity	HDMI	3
	USB	2
	Component In (Y/Pb/Pr)	1
	Composite In (AV)	1(Common Use for Component Y)
	Ethernet (LAN)	Yes
	Headphone	N/A
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1

Item		UN65KU630DFXZA
Connectivity	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C)	N/A
	CI Slot	N/A
	Scart	N/A
	MHL	N/A
	HDMI A / Return Ch. Support	Yes
	HDMI Quick Switch	Yes
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	Wireless LAN Built-in	Yes
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	Bezel Type	VNB
	Slim Type	Slim
	Front Color	Black
	Light Effect (Deco)	N/A
	Stand Type	V feet-JS7000 (Dark Titan)
	Swivel (Left/Right)	N/A
Additional Feature	Samsung 3D	N/A
	Instant On	Yes
	Processor	Quad-Core
	SCSA Support	N/A
	Accessibility	Voice Guide/Enlarge/High Contrast
	Digital Clean View	Yes
	One Connect (Jack)	N/A
	Auto Channel Search	Yes
	Auto Power Off	Yes
	BD Wise Plus	N/A
	Caption (Subtitle)	Yes
	Channel List USB-Clone	N/A
	Connect Share™ (HDD)	Yes
	ConnectShare™ (USB 2.0)	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	N/A
	Game Mode	Yes
	OSD Language	English, Spanish, French
	BT HID Built-in	Yes
	USB HID Support	Yes

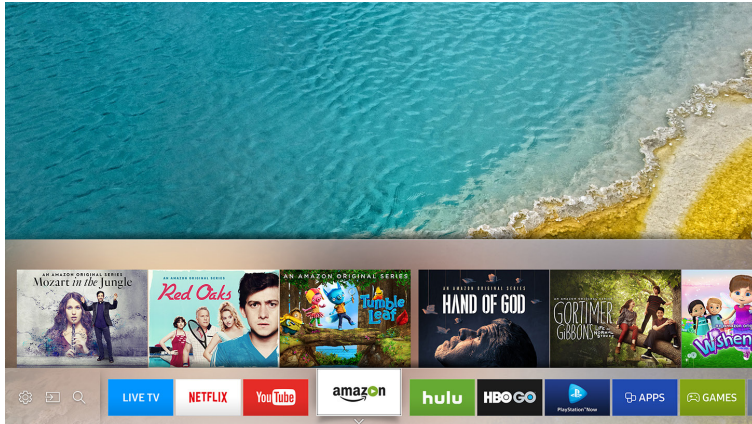
2. Product specifications

Item		UN65KU630DFXZA
Additional Feature	Smart Evolution Support	N/A
	Teletext (TTX)	N/A
	Time Shift	N/A
	V-Chip	Yes
	MBR Support	Yes
	Ultra Clean View	Yes
Eco Feature	Energy Star	Yes
	Eco Sensor	Yes
	Energy Efficiency Class	N/A
Power	Power Supply	AC110-120V 50/60Hz
	Power Consumption (Max)	250 W
	Power Consumption (Stand-by)	0.3 W
	Power Consumption (Typical)	75 W

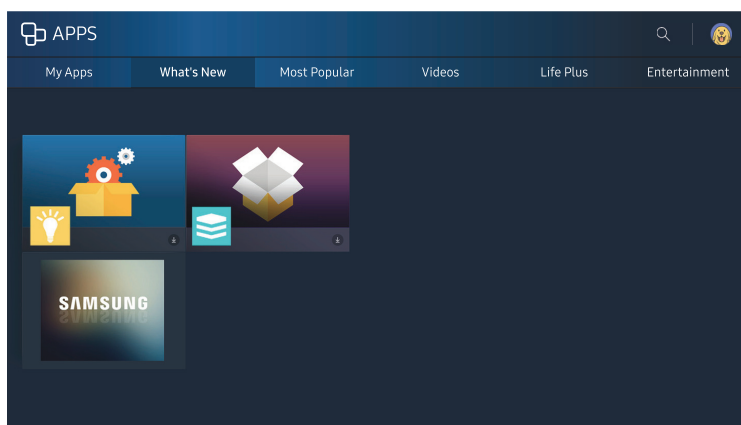
2-3. NEW Key Features

2-3-1. 16" New UI

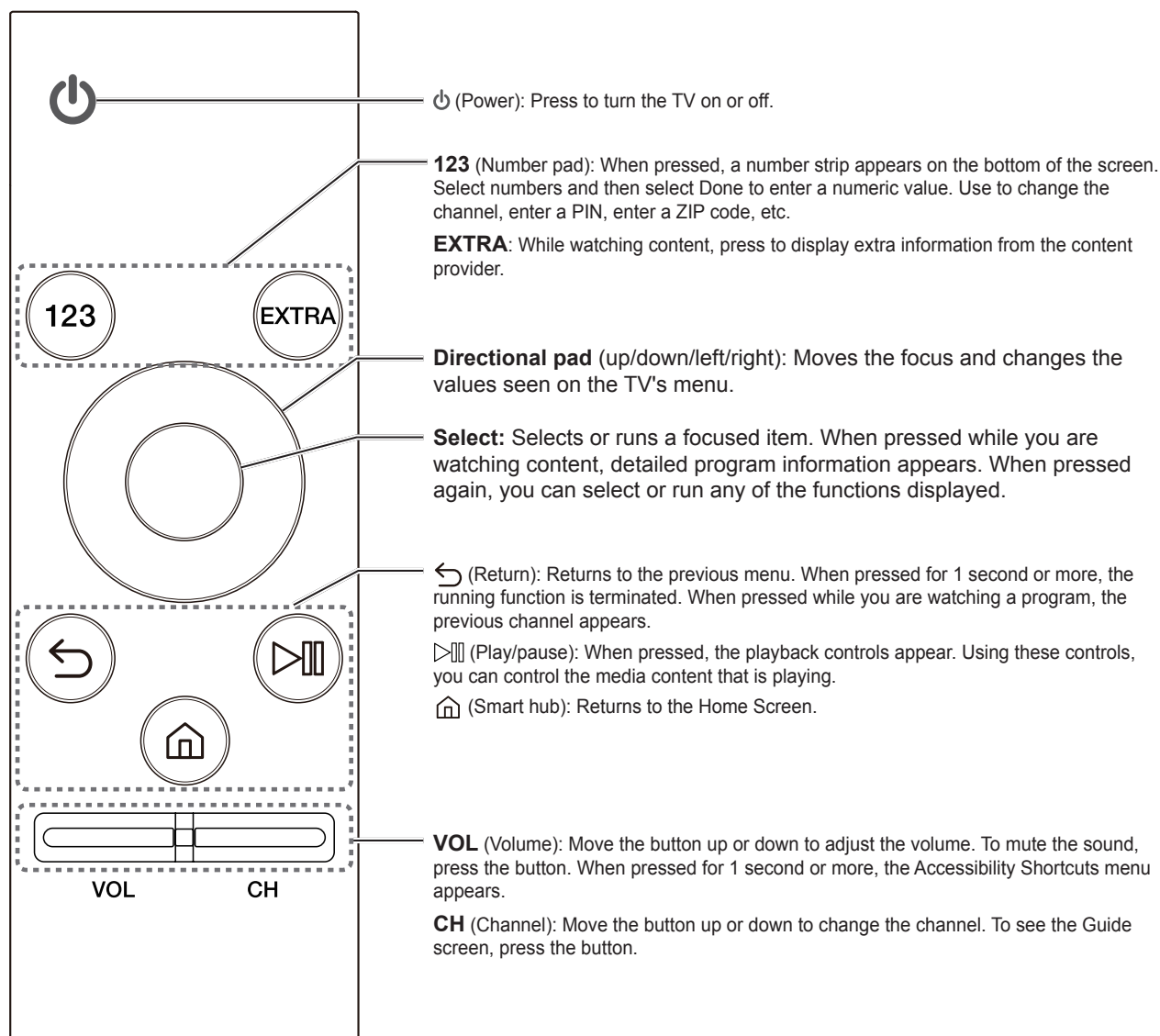
■ Smart Hub



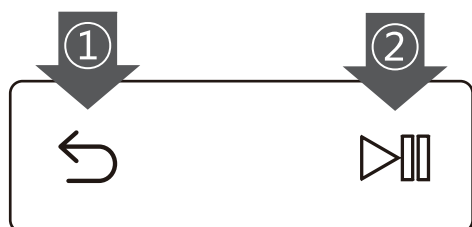
■ APPS Service



2-4. Smart Control

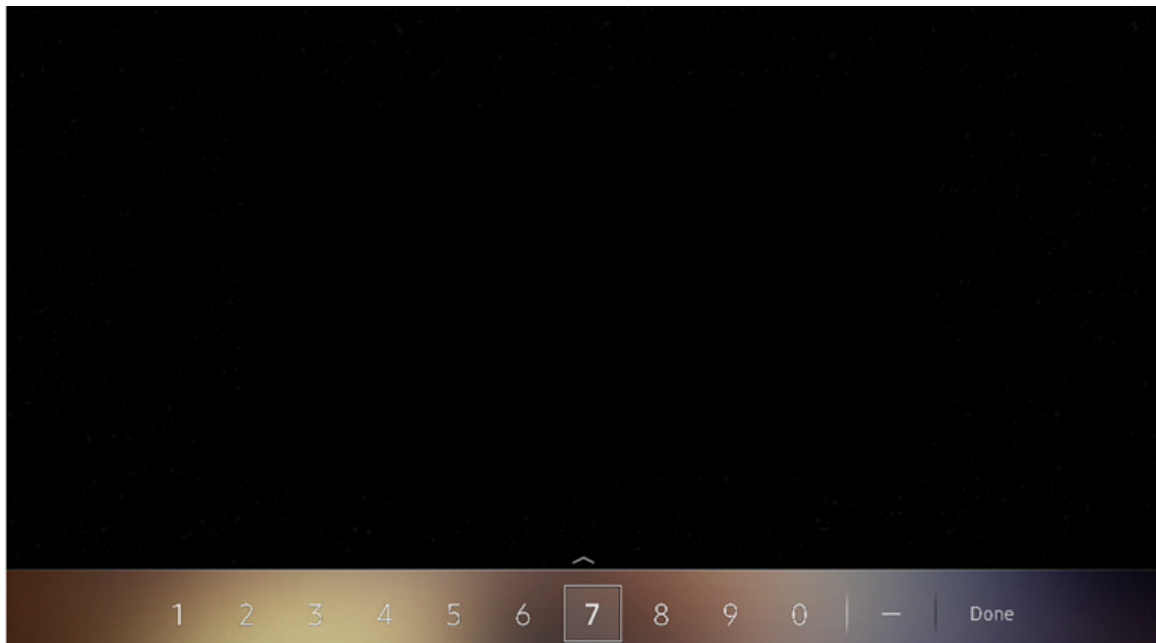


Pairing the TV to the Samsung Smart Control

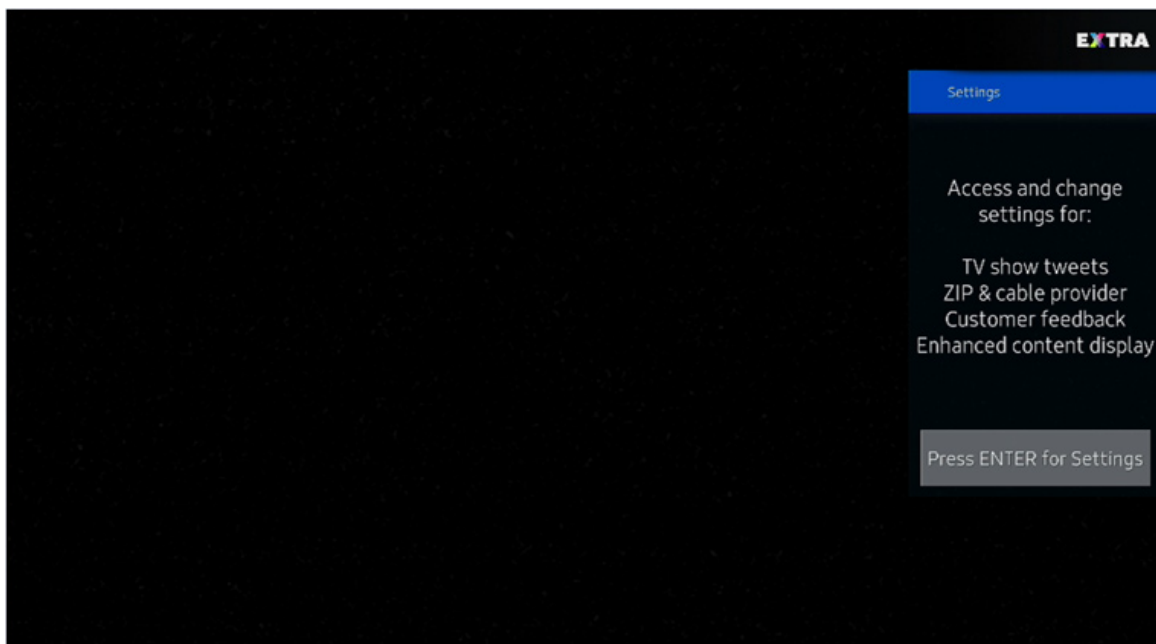


When you turn on the TV for the first time, the Samsung Smart Control pairs to the TV automatically. If the Samsung Smart Control does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the buttons labeled 1 and 2 in the figure on the left simultaneously for 3 seconds or more.

2-4-1. 123 Key



2-4-2. EXTRA Key



2-6. HDMI Color

2-6-1. HDMI UHD Color

- When you set the HDMI connection to On, the TV turns off and then on automatically.
- The HDMI connection with HDMI UHD Color set to Off supports up to UHD 50P/60P 4:2:0 input signals, while the HDMI connection with HDMI UHD Color set to On supports up to UHD 50P/60P 4:4:4 and 4:2:2 input signals. For more information, refer to "Supported Resolutions for UHD Input Signals."
- Each HDMI connection can be individually optimized for HDMI UHD Color. When you connect the TV to an external device that supports only the UHD 24 or 30 Hz frequency or any FHD frequency, the HDMI UHD Color function may not be available. In this case, set HDMI UHD Color to Off.

2-6-2. HDMI Black Level

- This function is only available when the input signal, connected to the TV via an HDMI connector, is set to RGB444.

2-7. Supported Formats

2-7-1. Supported image formats and resolutions

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360x8640
*.png	PNG	4096x4096
*.bmp	BMP	4096x4096
*.mpo	MPO	15360x8640

2-7-2. Supported music formats and codecs

File Extension	Type	Codec	Note
*.mp3	MPEG	MPEG1 Audio Layer 3	-
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to two channels.
*.ogg	OGG	Vorbis	Supports up to two channels.
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channels. WMA lossless audio is not supported. Supports up to M2 profile.
*.wav	wav	wav	
*.mid *.midi	midi	midi	Supports type 0 and type 1. Seek is not supported. Supports USB device only.
*.ape	ape	ape	
*.aif *.aiff	AIFF	AIFF	
*.m4a	ALAC	ALAC	

2-7-3. Supported video codecs

File Formats	Container	Video Codecs	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec		
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS SVAF	H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30 3840 x 2160: 60	60	Dolby Digital LPCM ADPCM(IMA, MS) AAC HE-AAC WMA Dolby Digital Plus MPEG(MP3) DTS(Core, LBR) G.711(A-Law, μ-Law)		
		HEVC (H.265 - Main, Main10, Main4:2:2 10)		60	80			
		Motion JPEG	3584 x 2160	30	80		60	20
		MVC	1920x1080					
		DivX 3.11 / 4 / 5 / 6						
		MPEG4 SP/ASP						
		Window Media Video v9 (VC1)						
		MPEG2						
		MPEG1						
		Microsoft MPEG-4 v1, v2, v3						
		Window Media Video v7 (WMV1), v8 (WMV2)						
		H.263 Sorrenson						
		VP6		30				
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis		
		VP9	4096 x 2160	4096 x 2160: 60	40			

Other Restrictions



NOTE

- Codecs may not function properly if there is a problem with the content data.
- Video content does not play or does not correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is wrong, the Seek(Jump) function does not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the player.
- HEVC codec is only available in MKV / MP4 / TS containers.

2-8. Accessories



NOTE

- The items' colors and shapes may vary depending on the model.
- Cables not included in the package contents can be purchased separately.
- The part code for some accessories may differ depending on your region.

Product	Code. No	Product	Code. No
• Smart Touch Control	BN59-01260A	• User Manual	BN68-07842E
• Batteries (AA x 2)	4301-000101	• Regulatory Guide	BN68-04972E
• Power Cord	3903-001117		

Image	Product	Code. No
	• COMPONENT IN / AV IN Adapter	BN39-02189A BN39-02190A

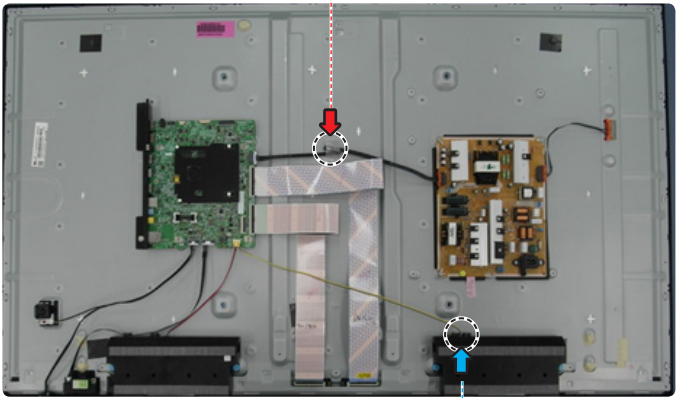
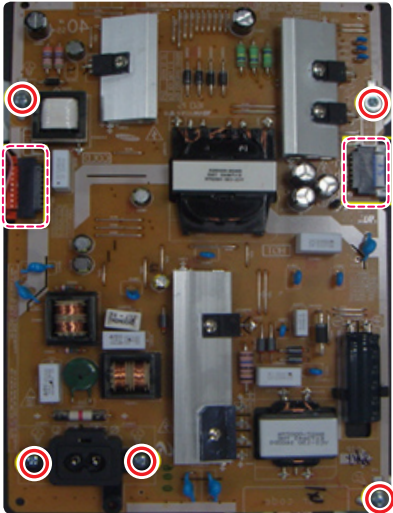
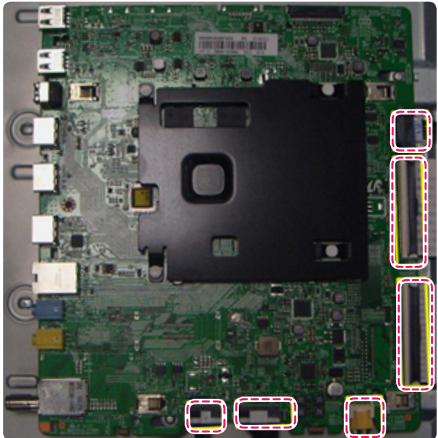
3. Disassembly and Reassembly

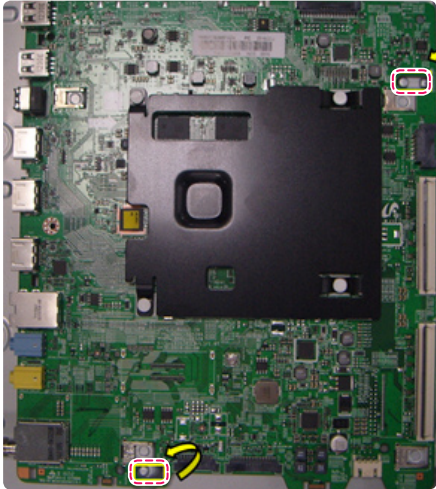
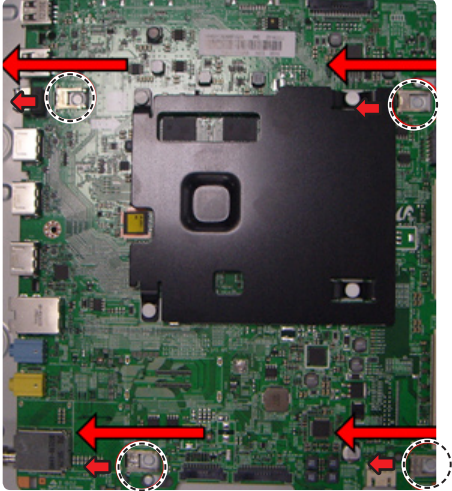
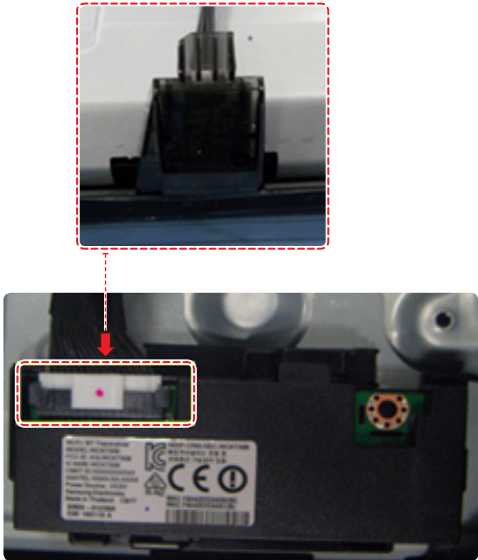


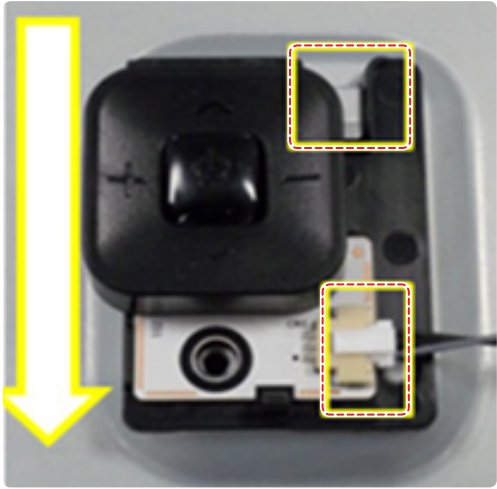
1. Disconnect the LED TV from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
 - Recommend Torque : 22.0 ~ 26.5lbf
 - A strength of Torque can be changed depending on the situation.

3-1. Disassembly and Reassembly

Description	Picture Description
1 Carefully position the TV so that the screen is facing downwards. Make sure to place the TV upon a soft cushion or any material that will prevent damage to the screen.	
2 Remove the screws connecting the stand to the TV. Then carefully remove the stand. Screws  6902-002474 x 4EA TORQUE : 22.0 ~ 26.5lbf	
3 Remove the screws for the 'Rear Cover'. Then carefully remove the 'Rear Cover'. Screws  6001-002755 x 17EA TORQUE : 22.0 ~ 26.5lbf 6003-001782 x 1EA TORQUE : 22.0 ~ 26.5lbf	

Description	Picture Description
4 Remove the Electric tapes shown on the images. •  Filament Tape •  Dressing  NOTE When assembling the TV, the electric tapes must be applied on the same locations. Please remember to take a picture of where the tapes were first applied.	
5 Remove the 'Lead Connectors' and screws from the SMPS unit Then carefully remove the SMPS unit. Screws  6001-003016 5EA TORQUE : 22.0 ~ 26.5lbf	
6 Remove the cables from the 'TV Board'.	

Description	Picture Description
7 Use both hands to hold the 'Main Board' and gently lift up 2 point marked.	 A photograph of the main board of a device. A large black heat sink is in the center. Two small points on the board are circled in red and labeled with yellow numbers 1 and 2, indicating where to lift the board.
8 Slide the board to the Left side to release the board. Then carefully remove the 'TV Board'.	 A photograph of the main board. Four red arrows point from the right side towards the left, indicating the direction to slide the board. The four screws that hold the board in place are circled in red.
9 Remove the BT/WIFI and IR unit.	 Two photographs showing the removal of the BT/WIFI and IR unit. The top photo shows the unit being lifted out of its housing. The bottom photo shows the unit being pulled out of a slot, with a red dashed box highlighting the unit and a red arrow pointing to it from the top photo.

Description	Picture Description
10 Remove the JOG unit.	
11 Lastly, remove the speakers on both side.	
* Panel - Rear Side	

 **NOTE**

Reassembly procedures are in the reverse order of disassembly procedures.

4. Troubleshooting

4-1. Previous Check

■ Check list for initial operation

1. Check the various cable connections first.
 - Check to see if there is a burnt or damaged cable.
 - Check to see if there is a disconnected or loose cable connection.
 - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the Main Board.
3. How to distinguish if the problem is caused by Main Board or T-CON Board.

- No Video

Symptom	If the problem is No Video but BLU is on and Indication LED is blinking repeatedly and faster than normal booting.
Check Points	• Replace the T-CON Board.

- Distorted Picture :

Check Points	• Check the inner patterns.
---------------------	---

4-2. How to Check Fault Symptom

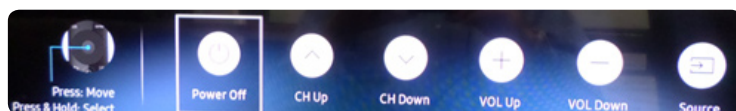
4-2-1. Power

■ TV POWER STANDBY

1. TV in Standby
 - √ **Standby LED Indicator**
2. If Not Lit:
 - √ AC 120Vac Line
3. If missing:
 - √ 120Vac Source and Power Cord
4. If OK:
 - √ Resistance on SMPS **Fuse** after first removing AC power cord.
5. If fuses are open replace SMPS.
6. If fuses are OK:
 - √ **Standby: A13V** (Always On) to Main Board. Should all be approx. 9 **VDC**
7. If any missing remove the SMPS connector to Main Board .
 - √ Standby A13V again for 9VDC.
 - If OK replace **Main Board**.
 - If still missing replace **SMPS**.

■ FUNCTION/IR Control

1. TV in Standby
 - ✓ **LED Status**
2. If **LED** is **OFF**
 - ✓ LED 1.7Vdc (pin 8) and VCC for 3.3Vdc
 - If missing suspect Function Assy/Cable/Main board.
3. If **LED** is **ON**
 - ✓ Switch Operation activates on screen display.



<On Screen Selections with Function Control>

If missing:

1. Check the STBY voltage from SMPS to Main Board. If STBY is OK suspect **Main Board**.
2. Check Jog Shuttle SW Operation (**Key 1 & Key 2**) for command changes. If incorrect suspect a **stuck Jog switch** which also holds data to Main preventing operation.
3. Check **SDA, SCL** for effective 3.3Vdc (after power on)
4. Check **IR** with Standard Remote command changes. (3.3V to 2.5V effective DC)



<Function/IR>

CN1101 (FUNCTION/IR)			
1	IR 3.3Vdc to 2.5Vdc (Effective DC)	2	GND
3	A3.3V_PW	4	AMP_SCL_I2C 3.3Vdc (effective DC)
5	AMP_SDA_I2C 3.3 Vdc (effective DC)	6	KEY_INPUT1 1.8dc to 0V with PWR On command
7	KEY_INPUT2 1.8Vdc to command Voltage	8	LED_STB_OUT 1.7Vdc STBY
9	N/C	10	N/C
11	N/C	12	N/C



<Jog Function Switch>

P	CMD	Signal	DC Voltage
1	Center	Key 1	1.8V to 0 Vdc
2	Vol+	Key 2	1.8V to 1.0 Vdc
2	Vol-	Key 2	1.8V to 1.5 Vdc
2	CH+	Key 2	1.8V to 0 Vdc
2	CH-	Key 2	1.8V to 0.6 Vdc
3		GND	

■ SMPS POWER

1. Power TV On.

- ✓ **PS_ON**. 2Vdc (when off) changes to 3.3Vdc (on)
- May already be On if IoT USB is loaded or TV Smart Things Hub mode is active.

2. if voltage error or no change.

- ✓ Jog Function Control Test.

3. If OK replace Main Board.

- ✓ All **A13V** supplies to full voltage level **12.7VDC**.

4. If any wrong voltage, remove the SMPS connector to Main Board.

- ✓ A13V again for 12.7VDC.

5. If OK replace Main Board.

6. If still wrong voltage replace SMPS.

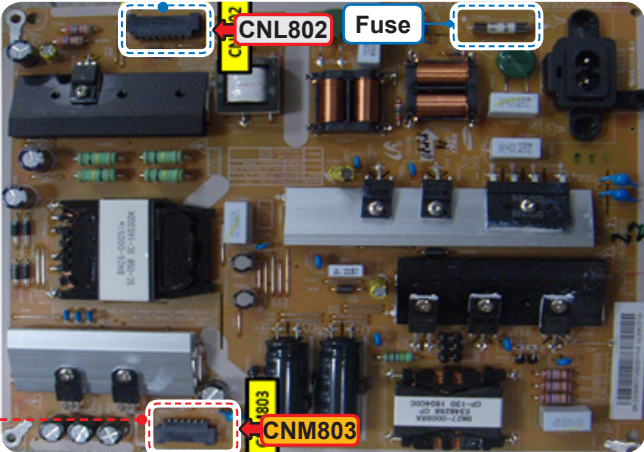
- ✓ **OD** (Over Voltage Detect) : 3.3Vdc (Operating Normal)

7. If 0V or changing, an SMPS or Panel error exists. Perform Backlight Test.

- ✓ **BLU_PWM** 0V- Off to approx 1 – 3.3 V pending Backlight dim level
- ✓ If missing/error replace **Main Board**.

CNL802			
1	2+	9	1+
2	NC	10	NC
3	NC	11	NC
4	2-	12	1-
5	NC	13	NC
6	NC	14	NC
7	NC	15	IF2
8	NC	16	IF1

CNM803			
1	Fail Count	7	A13V
2	ANA-DIM	8	POWER_ON/OFF
3	A13V	9	A13V
4	OD_ON/OFF	10	GND
5	A13V	11	GND
6	BLU_PWM	12	GND



■ BACKLIGHTS



1. Activate Backlights Test:

- Disconnect Lead Cable from Main Board to Power Supply. (CN202)
- ✓ TV Screen for active backlight LEDs.

2. If NO BACKLIGHTS

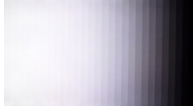
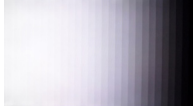
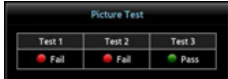
- ✓ Plus (+) & Minus (-) pin voltages on the Panel Connector.
- If no pin voltages replace SMPS.
- If voltages exist but no backlight:
- ✓ The highest pin voltage (BL Drive Supply)
- Remove Panel connector and measure again to compare.
- If the voltage was high and stays the same high reading a string of Panel LEDs are open. Replace the Panel.
- If the **voltage was low** and remains low the **SMPS** is defective.
- If the voltage was low and goes high a string of panel LEDs are shorted replace the **Panel**.

For BACKLIGHT DIMMING PROBLEMS:

- Go to **Menu** → **Picture** → **Backlight** and vary level (0 – 20)
- If no backlight changes observed:
 - ✓ Panel Connector pin voltages and BLU_PWM voltages (CNM801) while changing backlight level.
- If Panel voltages don't change, and BLU_PWM changes, replace **SMPS**.
- If BLU_PWM doesn't change replace **Main/T-Con Board**.

4-2-2. Video

■ Customer Picture Test

MAIN/TCON BOARD				
Main Section	Pre- FRC (T-CON)	Post FRC (T-CON)	Test Result	Problem
				
Pass	Pass	Pass		Check Signal Source and other inputs to One Connect
Fail	Pass	Pass		Replace Main/T-CON Board
Fail	Fail	Pass		Replace Main/T-CON Board
Fail	Fail	Fail		Replace Main/T-CON Board or Panel

■ MAIN / T-CON Board

1. Main Board Section



Video Operation : **Generated on Main Section.**

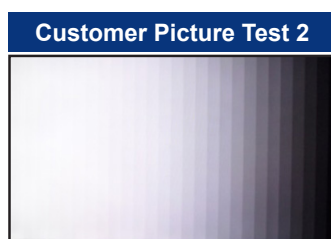
1. If OK:

- ✓ Source & Input Cables.
- ✓ Other inputs.
- ✓ One Connect Cable/Box.

2. If Noisy:

- ✓ T-CON Section Test Patterns.

2. PRE FRC of T-CON Section



Video Operation : **Generated at Pre FRC, of T-CON Section.**

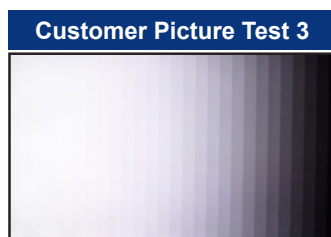
1. If OK:

- ✓ Main Section.

2. If Noisy:

- ✓ Post FRC Pattern.

3. POST FRC of T-CON Section



Video Operation : **Generated at Post FRC of T-CON Section.**

1. If OK:

- ✓ Main / T-CON Board (defective).

2. If Noisy:

- ✓ Mute - 369 - Mute.

4. T-CON Section



NOTE

May not be available for Larger models over 70 inches.

Video Operation : **Generated at T-CON Section.**

1. If OK:

- ✓ Main / T-CON Board (defective).

2. If Noisy:

- ✓ Main / T-CON Board.

■ PANEL

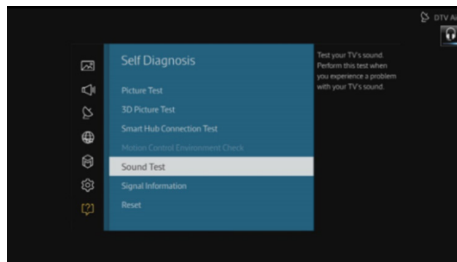


1. If Noisy:

- ✓ Panel (defective).

4-2-3. Audio

■ AUDIO



Source

- **No TV Sound**
 - ✓ Menu → Audio → Speaker Settings set to **TV Speaker**
- **Noisy / Distorted TV Audio**
 - ✓ Customer Menu → Support → **Sound Test**
- **If **Sound Test** FAILS : (Missing / Noisy Audio)**
 - ✓ Speakers (compare resistance/quality)
 - Compare audio level out to speakers with multi meter.
 - ✓ Replace defective Speakers or Main Board or Cable.
- **IF **Sound Test** OK :**
 - ✓ Audio Source & External Cables.
 - ✓ With external Audio Generator (device or App).
 - ✓ Other Inputs.
 - ✓ One Connect Mini.
- **Optical Digital Out Errors**
 - ✓ Red light from Optical Digital Out.
 - If missing replace One Connect Mini
- **No HDMI Audio**
 - ✓ Source / HDMI Cable & One Connect Mini Connectors.
 - Swap with other HDMI Inputs/Sources.
 - Perform **EDID Write** in Factory Mode (Can restore missing HDMI Audio).
 - ✓ Bulletins and Latest firmware on TV.
 - If not restored replace One Connect Mini/Main.
 - Check Audio Format PCM/Dolby based on external Receiver.
- **ARC Issues**
 - ✓ HDMI Cable is input to the ARC Designated HDMI port.
 - ✓ ARC (HDMI Control) is enabled on the external Receiver.
- **Bluetooth Audio "**Sound Share**" Connection Issues**
 - ✓ Sound Bar is in TV Mode.
 - To Connect, Press & Hold Play Button until Sound Bar pairing mode begins.

4-2-4. Network



■ TV to Router "Failure"

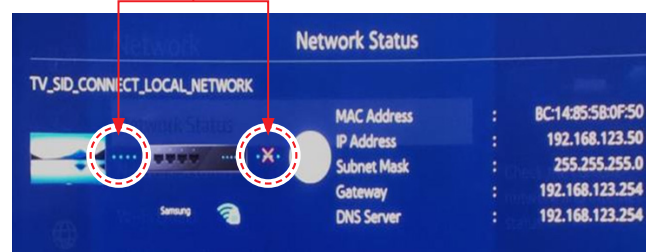
Check Network Status (TV ~~→~~ Router → Internet)



- **Wired & Wireless MAC Address** in Customer Support Menu.
 - ✓ **No Wired MAC Address:** Replace Main Board.
 - ✓ **No Wireless MAC Address:** Module cabling & voltages from Main Board.
 - ✓ If operating voltages are OK but signal missing.
 - Replace WiFi Module (WiFi/Bluetooth Module).
- Proper **security passcode**
 - ✓ Check Wi-Fi signal strength at TV (use WiFi Analyzer or similar App).
 - Try another source (Hot spot or Test Router).
 - ✓ Check related Bulletins.
 - ✓ Check **Factory Mode** → **SVC** → **Info** → **WiFi Error Count** (replace module for high error counts).

■ Router to Network "Failure"

Check Network Status (TV → Router ~~→~~ Internet)



- Instruct the customer the TV has proper connection to the router and is likely OK.
 - ✓ Check other devices using network are OK. If they test OK this does not mean the TV should be working.
- Try another source (Hotspot) to test/show TV Network operation.

4-2-5. Smart Hub

Go to [Menu > Support > Self Diagnosis > Smart Hub Connection Test](#)



1. Network / Gateway

- **If it Fails:**
 - ✓ TV to Router Connection Test in "[Network Trouble shooting](#)"

2. DNS Test

- **If it Fails:**
 - ✓ DNS setting in "[Network Settings](#)"
- **If DNS is set manually:**
 - ✓ Settings are correct (may be set to 8.8.8.8 to prevent Netflix issues)
- **If it still fails:**
 - ✓ DNS Test with setting to Auto Mode
- If it fails both Manual & Auto problem is ISP or Router.

3. ISP Blocking

- **If it Fails:**
 - ✓ Internet Service Provider is Active.
 - ✓ With DNS setting at 8888.
 - ✓ With Hot Spot.

4. Samsung Server Test

- **If it Fails:**
 - ✓ Network Status.
- **If OK:**
 - ✓ Reset Smart Hub.
 - ✓ Terms of Agreement are accepted.

5. Samsung Apps

- **If it Fails:**
 - ✓ Reset Smart Hub.
 - ✓ Samsung Apps load correctly.
 - ✓ Perform "[Apps Reset](#)" in Factory Mode.
 - ✓ Go to Smart Hub and complete Terms of Agreement and set up information.
 - ✓ Samsung Apps load correctly.
 - ✓ Before selecting an App, allow Apps to load or failure will occur.

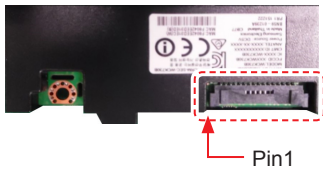
For Netflix Operation/Connection Issues:

- Check Certificate & Netflix ESN Status in Factory Mode.
 - If Certificate and ESN exists, "**CO**", "**Nfo**", change the **DNS** to **8.8.8.8**
 - If Certificate is missing, "**C**" replace the TV's Main Board.
 - If ESN number is missing: **NF**/ do not replace the Main Board.
 - Reset TV Clock and check for correct Time & Date. Netflix relies on correct settings.
 - Reset Smart Hub. / Reset Apps In Factory Mode.

For Streaming Issues:

- Go to TV Web Browser / Go to speedof.me / testmy.net
 - ✓ **Check Speed** for at least 5 Mbps(HD streaming) / 25 Mbps (4K Streaming).
 - ✓ **Check Latency** for less than 50ms.

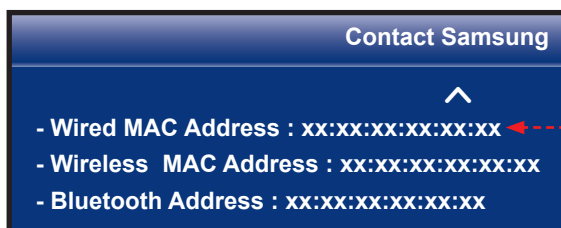
4-2-6. Bluetooth / WiFi Module



BT / WIFI			
1	BT_NRESET	2	BT_POWER_DET
3	BT_WAKE	4	-
5	BT_D- _USB	6	BT_D+ _USB
7	-	8	BT_WELCOME
9	WIFI_PHY_ON	10	-
11	WIFI_D+ _USB	12	WIFI_D- _USB
13	-	14	WIFI_5V
15	WIFI_WOL	16	WIFI_NRESET

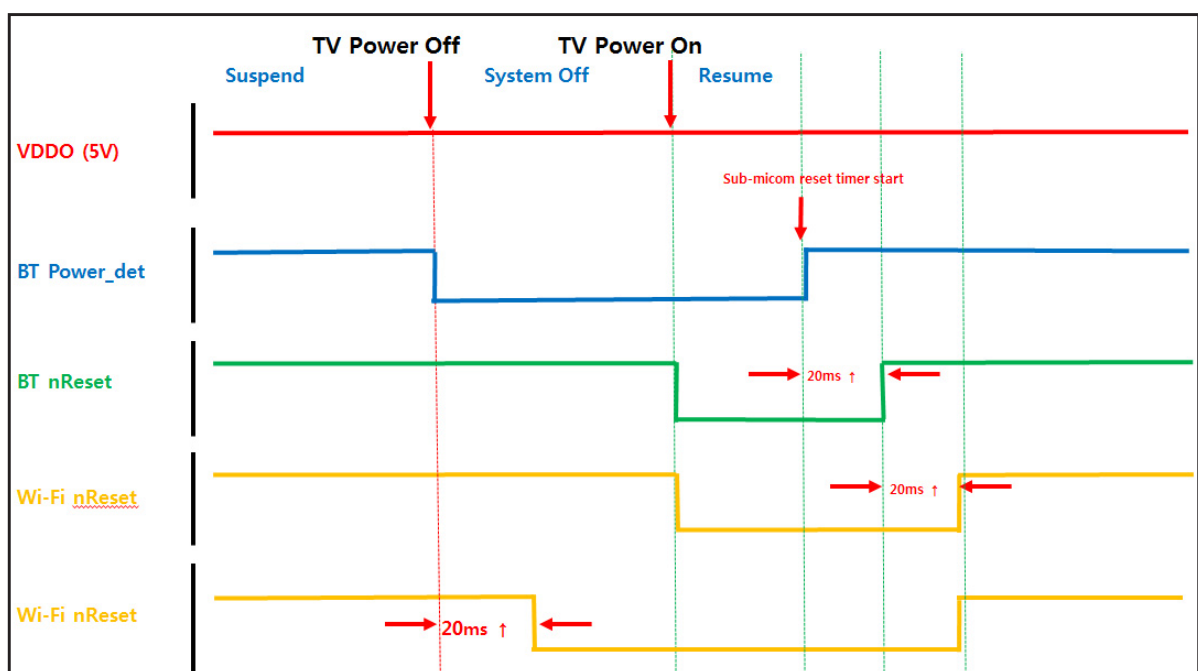
Pins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Standby	3.3 Vdc	0	3.3 Vdc	NC	0	0	0	0V	0V	0	3 Vdc	0	0	5 Vdc	3.3 Vdc	3.3 Vdc
Power ON	3.3 Vdc	3.3 Vdc	3.3 Vdc		0.7V eff.dc BT Sig (DM) 4V p-p	2.5V eff.dc BT Sig (DM) 4V p-p	0	0V	3.3 Vdc	0	2.5V eff.dc WIFI Sig (DP) 0.5V p-p	2.5V eff.dc WIFI Sig (DM) 0.5V p-p	0	5 Vdc	3.3 Vdc	3.3 Vdc

Go to [Menu > Support > Contact Samsung](#)



- Wired MAC Address : xx:xx:xx:xx:xx:xx ← Missing or Error : Replace **Main Board**.
 - Wireless MAC Address : xx:xx:xx:xx:xx:xx
 - Bluetooth Address : xx:xx:xx:xx:xx:xx

- If **Bluetooth Address** or **Wireless MAC Address** are missing or errors exist.
- BT & Wi-Fi Connector Voltages.
 - If Voltages are OK but no BT or Wi-Fi Signals voltage(s), replace defective Module.



4-3. Factory Mode Adjustments

4-3-1. Entering Factory Mode

To enter 'Service Mode' Press the remote-control keys in this sequence :

■ Factory Remote

1. Power TV ON.
2. Select TV Source.
3. **Info** → **Factory**.
4. Use **MENU** for return.

■ Samsung IR Remote (Limited Operation)

1. TV Power Standby.
2. Press as follows.
 - Remote Button : **MUTE** → **1** → **8** → **2** → **Power**
 - **Option** (must set Option Bytes when replacing Main Board.)
 - Option → **Factory Reset** (returns TV to out of box condition. Does not reset Apps.)
 - SVC → **Test Patterns**
 - SVC → Info → **ER Count** (Important to check for errors.)
 - Resets to 0 with Factory Reset.

First Screen Appearing in Factory Mode (SAMPLE)

MODE : CATV, RES : NOSIGNAL

Option

Control

Debug

SVC

ADC/WB

Advanced

T-JZL6AKUC-XXXX.XX

T-JZMAKUS-XXXX

tztv-X.X.-main2016-jazz-L_XXXXXXX.X

BT Version : BLUETOOTH-VER-XXXX

E-Manual:----

CAMERA:****

Blaster Version : Not support

E-POP Version : JAZZLUHD-XXXX.X

EDID SUCCESS

HDCP SUCCESS

CALIB : AV/COMP/PC/HDMI/

Option : NONE_16,NONE,6000,NONE

DTCP Not Support

FRC-[JAZZ-L?][NON FRC][HW:0x00]

TCON Version:----

Model : UN**KU630DF

Wired MAC SUCCESS

Wireless MAC SUCCESS

WIFI Version : BCM43569_16210_WLC_E_STATUS_ABORT

CO NfO WO MO D/ HX P/ AO O S/ N/ RO SC/ SiO(P)

NS//

Factory Data Ver : XXX / Fixed Ver : XX

EERC Version : 75 / WB Ver : 8

CPLD/LD : N/A

SmartControl : 0

Board Info : 2015/12/29/PV/12/BN41-02528A

Factory Reset In Production : ----

SID : ----

Date of purchase : --/------

✓ Testing Items

✓ Main SW Version

✓ Sub SW Version

✓ Wired MAC (Status)

✓ Wireless MAC (Wi-Fi Module)

✓ CO NFO WO. etc.

- Certificate
- Netflix
- Wide Vine
- etc. Status

4-3-2. Detail Factory Option



NOTE

If you replace the main board with new one, please change the factory option as well.
The options you must change are "Type".

■ UN40KU630DFXZA

Multi Bom		FA01	FB02	FC03
Panel Type		40A6AU0VK	40A6AU2VK	40A6AU0VK
PANEL	Vendor	SDC	SDC	SDC
	Code	BN95-02634A	BN95-02634D	BN95-02634A
	Specification	CY-GK040HGLV1V	CY-GK040HGLV4V	CY-GK040HGLV1V
SMPS	Vendor	SANSUI	SANSUI	DYREL
	Code	BN94-10711A	BN94-10711A	BN44-00806A
	Specification	L40S5_KVD	L40S5_KVD	L40S6_FDY,AC/DC
MAIN	Chassis Ass'y	BN91-17275W	BN91-18305B	BN91-17275W
	PBA Ass'y	BN94-10798X	BN94-11234B	BN94-10798X

Multi Bom		FD04	FE05	FF06
Panel Type		40A6AU2VK	40A6AU3VK	40A6AU3VK
PANEL	Vendor	SDC	SDC	SDC
	Code	BN95-02634D	BN95-02634S	BN95-02634S
	Specification	CY-GK040HGLV4V	CY-GK040HGLV8V	CY-GK040HGLV8V
SMPS	Vendor	DYREL	SANSUI	DYREL
	Code	BN44-00806A	BN94-10711A	BN44-00806A
	Specification	L40S6_FDY,AC/DC	L40S5_KVD	L40S6_FDY,AC/DC
MAIN	Chassis Ass'y	BN91-18305B	BN91-15499Z	BN91-15499Z
	PBA Ass'y	BN94-11234B	BN94-11378Q	BN94-11378Q

Local set	US	BOM Model	630D	Front Color	U-F-KU60	SW Model	UKU6000
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■ UN43KU630DFXZA

Multi Bom		AA01	BA02	AB03	BB04
Panel Type		43L6AU0VK	43B6AU0VK	43L6AU0VK	43B6AU0VK
PANEL	Vendor	AUO	BOE	AUO	BOE
	Code	BN95-02635A	BN95-02697A	BN95-02635A	BN95-02697A
	Specification	CY-GK043HGAV1V	CY-GK043HGEV1V	CY-GK043HGAV1V	CY-GK043HGEV1V
SMPS	Vendor	SANSUI	SANSUI	DYREL	DYREL
	Code	BN94-10711A	BN94-10711A	BN44-00806A	BN44-00806A
	Specification	L40S5_KVD	L40S5_KVD	L40S6_FDY,AC/DC	L40S6_FDY,AC/DC
MAIN	Chassis Ass'y	BN91-17276L	BN91-18355B	BN91-17276L	BN91-18355B
	PBA Ass'y	BN94-10799L	BN94-11273B	BN94-10799L	BN94-11273B

Local set	US	BOM Model	630D	Front Color	U-F-KU60	SW Model	UKU6000
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■ UN50KU630DFXZA

Multi Bom		DA01	DB02	DK03	DJ04
Panel Type		50D6AU0VK	50D6AU2VK	50D6AU0VK	50D6AU2VK
PANEL	Vendor	INX	INX	INX	INX
	Code	BN95-02636A	BN95-02636J	BN95-02636W	BN95-03677A
	Specification	CY-GK050HGNV1V	CY-GK050HGNV5V	CY-GK050HGNVDV	CY-GK050HGNVHV
SMPS	Vendor	SEC	SEC	HANSOE	HANSOE
	Code	BN94-10712A	BN94-10712A	BN44-00807A	BN44-00807A
	Specification	L55S5_KVD	L55S5_KVD	L55S6_FHS,AC/DC	L55S6_FHS,AC/DC
MAIN	Chassis Ass'y	BN91-17277Z	BN91-18336Z	BN91-17277Z	BN91-18336Z
	PBA Ass'y	BN94-10800Z	BN94-11256Z	BN94-10800Z	BN94-11256Z

Multi Bom		DC05	DD06	DE07	DF08
Panel Type		50D6AU0VK	50D6AU2VK	50D6AU2VK	50D6AU0VK
PANEL	Vendor	INX	INX	INX	INX
	Code	BN95-02636S	BN95-02636T	BN95-03679A	BN95-03673A
	Specification	CY-GK050HGNV9H	CY-GK050HGNVAH	Y-GK050HGNVNH	CY-GK050HGNVMH
SMPS	Vendor	SEC	SEC	HANSOE	HANSOE
	Code	BN94-10712A	BN94-10712A	BN44-00807A	BN44-00807A
	Specification	L55S5_KVD	L55S5_KVD	L55S6_FHS,AC/DC	L55S6_FHS,AC/DC
MAIN	Chassis Ass'y	BN91-17277Z	BN91-18336Z	BN91-18336Z	BN91-17277Z
	PBA Ass'y	BN94-10800Z	BN94-11256Z	BN94-11256Z	BN94-10800Z

Multi Bom		DH09	DG10
Panel Type		50D6AU4VK	50D6AU5VK
PANEL	Vendor	INX	INX
	Code	BN95-03992A	BN95-03997A
	Specification	CY-GK050HGNVVH	CY-GK050HGNVXH
SMPS	Vendor	HANSOE	HANSOE
	Code	BN44-00807A	BN44-00807A
	Specification	L55S6_FHS,AC/DC	L55S6_FHS,AC/DC
MAIN	Chassis Ass'y	BN91-15500H	BN91-15500J
	PBA Ass'y	BN94-11378X	BN94-11378Y

Local set	US	BOM Model	630D	Front Color	U-F-KU60	SW Model	UKU6000
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■ UN55KU630DFXZA

Multi Bom		FA01	CA02	BA03
Panel Type		55A6AU0VK	55S6AU0VK	55B6AU0VK
PANEL	Vendor	SDC	CSOT	BOE
	Code	BN95-02637A	BN95-02681A	BN95-02638A
	Specification	CY-GK055HGLV1H	CY-GK055HGHV1V/H	CY-GK055HGEV1V
SMPS	Vendor	SEC	SEC	SEC
	Code	BN94-10712A	BN94-10712A	BN94-10712A
	Specification	L55S5_KVD	L55S5_KVD	L55S5_KVD
MAIN	Chassis Ass'y	BN91-17857D	BN91-17857U	BN91-17370Y
	PBA Ass'y	BN94-10838A	BN94-10838R	BN94-10831A

Multi Bom		BJ04	CJ05	FJ06
Panel Type		55B6AU0VK	55S6AU0VK	55A6AU0VK
PANEL	Vendor	BOE	CSOT	SDC
	Code	BN95-02638D	BN95-02681F	BN95-02637F
	Specification	CY-GK055HGEV4V	CY-GK055HGHV4V	CY-GK055HGLV5V
SMPS	Vendor	HANSOE	HANSOE	HANSOE
	Code	BN44-00807A	BN44-00807A	BN44-00807A
	Specification	L55S6_FHS,AC/DC	L55S6_FHS,AC/DC	L55S6_FHS,AC/DC
MAIN	Chassis Ass'y	BN91-17370Y	BN91-17857U	BN91-17857D
	PBA Ass'y	BN94-10831A	BN94-10838R	BN94-10838A

Local set	US	BOM Model	630D	Front Color	U-F-KU60	SW Model	UKU6000
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■ UN60KU630DFXZA

Multi Bom		EA01
Panel Type		60H6AU0VK
PANEL	Vendor	SHARP
	Code	BN95-02639A
	Specification	CY-GK060HGSV1V/H
SMPS	Vendor	SOLUM
	Code	BN44-00808D
	Specification	L65S6N_FSM W,AC/DC
MAIN	Chassis Ass'y	BN91-17279Y
	PBA Ass'y	BN94-10802X

Local set	US	BOM Model	630D	Front Color	U-F-KU60	SW Model	UKU6000
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■ UN65KU630DFXZA

Multi Bom		FA01	DA02	DB03
Panel Type		65A6AU0VK	65D6AU0VK	65D6AU1VK
PANEL	Vendor	SDC	INX	INX
	Code	BN95-02640A	BN95-02641A	BN95-02641D
	Specification	CY-GK065HGLV1V/H	CY-GK065HGNV1V/H	CY-GK065HGNV3V
SMPS	Vendor	SOLUM	SOLUM	SOLUM
	Code	BN44-00808D	BN44-00808D	BN44-00808D
	Specification	L65S6N_FSM W,AC/DC	L65S6N_FSM W,AC/DC	L65S6N_FSM W,AC/DC
MAIN	Chassis Ass'y	BN91-17858B	BN91-17858R	BN91-17369R
	PBA Ass'y	BN94-10803W	BN94-10803Z	BN94-11230R

Local set	US	BOM Model	630D	Front Color	U-F-KU60	SW Model	UKU6000
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4-3-3. Factory Data

■ Option

Factory Menu Name		Data	Range
Factory Reset		-	
Type	40"	40A6AU0VK, 40A6AU2VK, 40A6AU3VK	
	43"	43L6AU0VK, 43B6AU0VK	
	50"	50D6AU0VK, 50D6AU2VK, 50D6AU4VK, 50D6AU5VK	
	55"	55A6AU0VK, 55S6AU0VK, 55B6AU0VK	
	60"	60H6AU0VK	
	65"	65A6AU0VK, 65D6AU0VK	
Local Set		US	
SW Model		UKU6000	
BOM Model		630D	
TUNER		-	S_T2C
Ch Table		NONE	
MRT Option			

■ Control

Factory Menu Name		Data	Range
EDID			
EDID ON/OFF		OFF	
EDID WRITE ALL		...	
EDID WRITE HDMI		...	
EDID WRITE PC		...	
HDMI EDID Ver		...	
HDMI EDID Port		...	
Sub Option			
RS-232 Jack		UART	
EXT Link Support		ON	
Serial Log On/Off		OFF	
Watchdog		ON	
FRC Monitoring		OFF	
Checksum		0x0000	
Fast Boot In Production		ON	
USB Serial		OFF	
ECO IC TYPE		MC8121	

4. Troubleshooting

Factory Menu Name	Data	Range
Info Link Server Type	development	
Info Link Country	None	
TTX Group	UserOSD	
Visual Test	Diabie	
OPTION_SWU		
RF Remocon Support	OFF	
CDD mode	...	
DPMS Support	OFF	
T-CON Device	JazzFT	
RM Server Type	Operating	
LMF LEAVE THRESHOLD	160	
LMF TRIM THRESHOLD	120	
LMF TERM THRESHOLD	80	
EOS Click	OFF	
BP PMS Reset	1	
FAnet Thread	2	
CI CPLD Version	1	
ACM_MC	ON	
UNIQUE TRIPLET	ON	
FS_FAV	OFF	
Private Range USE	ON	
SCSA Support	OFF	
OCM Reboot	ON	
SPI Protection		
FKP Server Type	Default	
OCM Support	ON	
Preloading Support	ON	
Multitasking Support	ON	
Browser preloading Support	FULL	
EXT IR Boot Support	OFF	
APP BOOTING SUPPORT	ON	
NagSam Support	OFF	
EWBS Support	OFF	
MVPD MBR Provider	COMCAST	
cloudscan Always Upload	OFF	
FirstScreen Cach Size	300	
Hotel Option		

Factory Menu Name	Data	Range
Hospitality Mode	OFF	
Power On		
Menu OSD		
Operation		
Music Mode		
External Source		
Eco Solution		
Cloning		
Shop Option		
Exhibition Mode	OFF	
Peak Mode	ON	
Metadata	ON	
Shopmode Picture Reset	ON	
Asia Option		
Unbalance	OFF	
AF Level adjust	0	
TX Power Level	0	
Mono Last Memory	OFF	
H Shaking	0	
SOUND		
High Devi	OFF	*If the broadcast signal is not good, TV will complement the characteristics of the signal (most use when weak signal comes from the growing area countries)
Carrier_Mute	ON	*If the noise comes from weakness-electromagnetic field, TV will be set Mute automatically(Only default on in North America)
Pilot Level High Thld	0x20h	* The High threshold value of stereo signal(If Pilot level is greater than High threshold value, recognize Stereo signal)
Pilot Level Low THLD	0x10h	* The Low threshold value of stereo signal(If Pilot level is less than Low threshold value, recognize Mono signal)
Carrier2 Amp High ThLD	9	
Carrier2 Amp Low THLD	6	
Amp Volume	0xc4h	
Amp Scale	0x3ch	
Amp EQ Check Sum	0x000057B5	
Subwoofer Support	3	
Woofer Type	0	
Woofer Volume	0xc7h	

4. Troubleshooting

Factory Menu Name	Data	Range
Woofer Scale	0x3fh	
Woofer Check sum	0x0000A273	
PEQ Inx	76	
PEQ Test	Ready	
Speaker EQ	ON	
Bottom Checksum	NONE	
Wall Filter Type	3	
SRS Tuning Parm	0	
SPDIF PCM Gain	-9	
AudioDock BT Delay	90	
3D_Glass BT delay	50	
Mic Scale	OFF	
India Sound	0	
Speaker Delay Normal	0	
NTV CU Delay	NORMAL	
Lipsync Inx	1	
Lipsync Checksum	0x4972	
Lipsync USB Test	Ready	
Lipsync BT Checksum	0x0000	
TP volume	0xc4h	
TP Scale	0x6ch	
TP EQ CheckSum	NONE	

■ Debug

Factory Menu Name	Data	Range
Spread Spectrum		
LVDS Spread	0	
DDR Spread	0	
Period	0	
Amplitude	0	
HD DDR SSC ON OFF	OFF	
HD DDR SSC Value	0	
FHD DDR SSC ON OFF	OFF	
FHD DDR SSC Value	4	
UHD DDR SSC ON OFF	ON	
UHD DDR SSC Value	0	
P eBus SSC ON/OFF	OFF	

Factory Menu Name	Data	Range
P eBus Value	0	
LVDS SSC ON/OFF	OFF	
LVDS SSC Value	0	
AP Vx1 SSC ON/OFF	ON	
AP Vx1 Value	12	
N Vx1 SSC ON/OFF	ON	
N Vx1 Value	0	
FRC Vx1 SSC ON/OFF	OFF	
FRC Vx1 SSC Period	0	
FRC Vx1 SSC Modulation	0	
FRC LVDS ON/OFF	ON	
FRC LVDS SSC MFR	3	
FRC LVDS SSC MRR	2	
FRC DDR SSC ON/OFF	ON	
FRC DDR SSC Period	1	
FRC DDR SSC Modulation	2	
ADV7619 Data strength	1	
ADV7619 Clock strength	1	
ADV7619 H_V_DE strength	1	
AP DDR SSC ON/OFF	OFF	
AP DDR SSC Value	0	
AP USIT SSC ON/OFF	ON	
AP USIT SSC Value	13	
OCM Vx1 SSC ON/OFF	OFF	
OCM Vx1 SSC Value	0	
TCON USIT SSC ON/OFF	BYPASS	
DDR Margin		
A CTRL_OFFSET_0_3	0	
A CTRL_OFFSET_D	0	
B CTRL_OFFSET_0_3	0	
B CTRL_OFFSET_D	0	
BT_ON_OFF	ON	
RF Mute Time	600ms	
Tuner Margin	3	European specifications
FRC		
FRC FDISPLAY ON/OFF	OFF	
3D FDISPLAY ON/OFF	OFF	

4. Troubleshooting

Factory Menu Name	Data	Range
PC Mode ON/OFF	OFF	
FRC VX1 RX EQ SETTING	OFF	
FRC VX1 TX Pre_emphasis setting	0	
Netflix OSD Threshold	179	
TCON		
TCON_TEMP READ	34	
TEMP LAST	6000	
DCC VERSION	0x0	
TCON Demura Bypass	OFF	
TCON FDisplay	OFF	
Panel Code 1		
Panel Code 2		
Panel Revision		
Panel Menu Week		
Panel S/N 1		
Panel S/N 2		
Panel S/N 3		
Panel S/N 4		
MPEG Margin	20	
H.264 Margin	15	
CAM Wait Time	15	
Voice Debug	OFF	
Power Management		
Cert Option	Waiting	
RM_BIST_DTV	0	
RM_BIST_ATV	0	
RM_BIST_CABLE	0	
SerDES Check		
SerDES Tuner	Failure	
HDMI SW	Failure	
HDMI Rx	Failure	
MP	Failure	
Main SerDES	Failure	
Jack SerDES	Failure	
Stress Mode	OFF	
Log Analyzer	ON	
Error Popup On/Off	OFF	

Factory Menu Name	Data	Range
DeadLock KILL	OFF	
CES Option	OFF	
CES Convergence Option	OFF	
CES ATSC 3_0	OFF	
CES OOB E MVPD SUPPORT	OFF	
BT DUT	OFF	
BT Throughput	Failure	
Reproduce Module	ON	
21_9		
L-DETECT STABLE TIME	7	
L-DETECT UNSTABLE TIME	3	
L-DETECT CAPTION THRESHOLD	720	
L-DETECT RAGION THRESHOLD	720	
L-DETECT B-LEVEL THRESHOLD	32	
L-DETECT USB SUPPORT	0	
DB Download		
MRT Option Dump	Failure	
Picture Data Dump	Failure	
VCONF Dump	Failure	
Read Eco Sensor Data	0	
No Signal Power OFF	ON	
Alert Option	ON	
Default HDMI1 Booting	OFF	

■ SVC

Factory Menu Name	Data	Range
Self Test(for HW)		* the Output of test pattern from each IC
Info		
Reset		
Apps Reset		
SVC Reset		
SPI Flash Reset		
Data Sync Reset		
Factory Data Reset		
OPTION_HDMI		
DVI/HDMI SOUND	Auto	
HDMI HOT PLUG	Disable	

4. Troubleshooting

Factory Menu Name	Data	Range
HOTPLUG SWITCHING	Auto	
HOT PLUG DURATION	800ms	
CLK TERM DURATION	300ms	
HDMI FLT CNT SIG	0ms	
HDMI FLT CND SIG2		
HDMI FLT CNT LOS	0ms	
UNSTABLE BAN CNT	1250ms	
HDMI ROBIN	0	
HDMI Callback	ON	
HDMI CTS Thld	0	
HDMI CTS Cnt1	0	
HDMI EQ	0	
HDMI Write Type	0	
HDMI Switch	0	
DVI SET TIME	0	
H Write	0	
HDMI Sync	0	
HDMI 3D DET	1	
HOT PLUG OFF HOLD TIME	600ms	
HDMI MUTE TIME	0ms	
HDMI NFST UNMUTE TIME	800ms	
HDMI FST UNMUTE TIME	0ms	
REPEAAUDIO PKT	OFF	
HDMI Stable Count	3	
HDMI HDCP EN	OFF	
HDMI HDCP EN FLAG	85	
POWER ON FLT CNT LOS		
HDCP UPDATE SPI	READY	
SPI VERSION	0	
HdmiRx EQ	0	
HDMI TMDS ERR DET	1	
DVB CI		
TS Clock delay TC	0	
TS Clock delay S	0	
CI Control Buf ON	ON	
TS Clock delay CPU	1	
TS Clock delay TC2	0	

Factory Menu Name	Data	Range
TS Clock delay S2	0	
CI Control Buf ON2	1	
TS Clock delay CPU2	0	
Test Pattern		
Scaler Pattern	OFF	
US Post Pattern	OFF	
FRC Pre Pattern	0	
FRC Post Pattern	0	
SOC TCON Pattern	0	
SOC TCON Pattern Level	255	
FRC OSD Pre Pattern	0	
FRC OSD Post Pattern	0	
FRC2 Pre Pattern	0	
FRC2 Post Pattern	0	
SOC TCON2 Pattern	0	
SOC TCON2 Pattern Level	255	
Upgrade		
T-CON DATA UPGRADE		
T-CON FW UPGRADE		
T-CON CheckSum		
T-CON2 Usb Download		
T-CON2 CheckSum		
PANEL EEPROM UPGRADE		
PANEL FLASH UPGRADE		
Logic Usb D/L		
SUBMICOM UPGRADE		* Upgrade Sub-Micom Program
SUBMICOM JP USB UPGRADE		
BT UPGRADE		* Upgarde BT(There is upgrade program in Main-Image)
BT FREEPAIRING		
Function Upgrade		
FRC3D FW UPGRADE		
FRC3D SRP UPGRADE		
FRC3D LD UPGRADE		
FRC2 3D FW UPGRADE		
Camera Upgade		* Upgarde Camera module(There is upgrade program in Main-Image)
Mic Upgrade		* Upgarde MIC in Camera module(There is upgrade program in Main-Image)

4. Troubleshooting

Factory Menu Name	Data	Range
Jump UPGRADE		
IR Blaster Upgrade		
IR Blaster delay time		
NTV CU UPDATE		
UD LDC PROFILE UPGRADE		
Pic Data USB Update		
Audio Data USB Update		
Eco Data USB Update		
CI CPLD Upgrade		
SC ADK Upgrade		
Other Setting		
Delete S/N		
IPERF	Stopped	
Expert		
CAL Data Backup	...	
CAL Data Restore		
MICOM POWER OFF	ON	
NTV CU FW VER	0	
ATV IF AGC SPEED	0	
Upgrade UHD OSD Test	0	
Main USB Path		
JackP USB Path		
Source Direct On/Off	OFF	
Apps Update		
Auto Power	LAST POWER	
SMCE Control		
Motor Test		
Cube Test		
V APP	OFF	
Picture Direct On/Off	OFF	
SVC Panel	ORIGINAL	
S/N		
Serial number		
Writing S/N		

■ ADC/WB

Factory Menu Name	Data	Range
ADC		
AV Calibaration		
Comp Calibration		
PC Calibration		
HDMI Calibration		
ADC Result		
1st_Y_GH	0	
1st_Y_GL	0	
1st_Cb_BH	0	
1st_Cb_BL	0	
1st_Cr_RH	0	
1st_Cr_RL	0	
2nd_R_L	128	
2nd_G_L	128	
2nd_B_L	128	
2nd_R_H	69	
2nd_G_H	69	
2nd_B_H	69	
White Balance		
R-Offset	128	
G-Offset	128	
B-Offset	128	
R-Gain	128	
G-Gain	128	
B-Gain	128	
WB-W2_R_Offset	128	
WB_W2_B_Offset	128	
WB_W2_R_Gain	136	
WB_W2_B_Gain	76	
WB_N_R_Offset	128	
WB_N_B_Offset	128	
WB_N_R_Gain	131	
WB_N_B_Gain	119	
MGA		
MGA On/Off	OFF	
R1_Gain		
G1_Gain		

4. Troubleshooting

Factory Menu Name	Data	Range
B1_Gain		
R2_Gain		
G2_Gain		
B2_Gain		
R3_Gain		
G3_Gain		
B3_Gain		
R4_Gain		
G4_Gain		
B4_Gain		
R5_Gain		
G5_Gain		
B5_Gain		
R6_Gain		
G6_Gain		
B6_Gain		
R7_Gain		
G7_Gain		
B7_Gain		
R8_Gain		
G8_Gain		
B8_Gain		
R9_Gain		
G9_Gain		
B9_Gain		
R10_Gain		
G10_Gain		
B10_Gain		
SPI White Balance		
SPI White Balance On/Off		
SPI R-Offset		
SPI G-Offset		
SPI B-Offset		
SPI R-Gain		
SPI G-Gain		
SPI B-Gain		
SPI N Rgain		

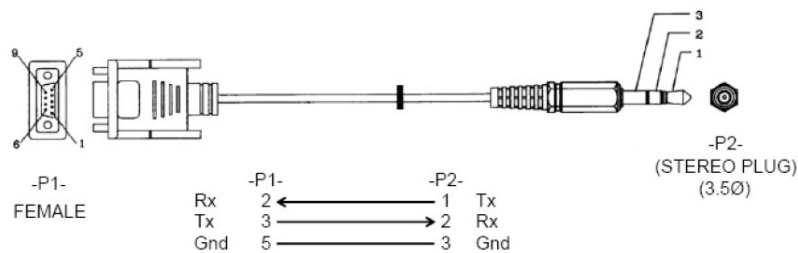
Factory Menu Name	Data	Range
SPI N Bgain		
SPI N Roffset		
SPI N Boffset		
SPI W2 Rgain		
SPI W2 Bgain		
SPI W2 Roffset		
SPI W2 Boffset		
SPI MGA		
WB Data to SPI		

■ Advanced

4-4. RS-232C

4-4-1. RS232C Control

- Port : COM#(Serial)
- Baud rate : 9600
- Data Bit : 8 bit
- Parity : None
- Stop Bits : 1
 - Flow Control : None



Description of RS232C

Pin#	Name	Full Name	Pin#	Name	Full Name	Pin#	Name	Full Name
1	CD	Carrier Detect	4	DTR	Data Terminal Ready	7	RTS	Request To Send
2	RxD	Received Data	5	GND	Signal Ground	8	CTS	Clear To Send
3	TxD	Transmitted Data	6	DSR	Data Set Ready	9	RI	Ring Indicator

4-5. AV Control Tab

Control Item				Cmd1	Cmd2	Cmd3	Value
General	Power	Power		0x00	0x00	0x00	0x00
		Off					0x01
		On					0x02
	Volume	Direct		0x01	0x00	0x00	(0~100)
		Up				0x01	0x00
		Down				0x02	0x00
	Mute			0x02	0x00	0x00	0x00
	Ch.	Direct		0x04	-		
		Continuous	Up	0x03	0x00	0x01	0x00
			Down			0x02	0x00
Input	Source List	TV		0x0a	0x00	0x00	0x00
		AV	AV1			0x01	0x00
			AV2				0x01
			AV3				0x02
		S-Video	S-Video1			0x02	0x00
			S-Video2				0x01
			S-Video3				0x02
		Component	Component1			0x03	0x00
			Component2				0x01
			Component3				0x02
		PC	PC1			0x04	0x00
			PC2				0x01
			PC3				0x02
		HDMI	HDMI1			0x05	0x00
			HDMI2				0x01
			HDMI3				0x02
			HDMI4				0x03
		DVI	DVI1			0x06	0x00
			DVI2				0x01
			DVI3				0x02
		RVU	RVU			0x07	0x00
PICTURE	Mode	Dynamic(Entertain)		0x0b	0x00	0x00	0x00
		Standard					0x01
		Movie					0x02
		Natural					0x03
		CAL-NIGHT					0x04
		CAL-DAY					0x05
		BD Wise					0x06

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE		Relax					0x07
	BackLight(CellLight)		0~20		0x01	0x00	(0~20)
	Contrast		0~100		0x02	0x00	(0~100)
	Brightness		0~100		0x03	0x00	(0~100)
	Sharpness		0~100		0x04	0x00	(0~100)
	Color		0~10		0x05	0x00	(0~100)
	Tint	G/R			0x06	0x00	(0~100)
	Advanced Settings	Black Tone	Off		0x07	0x00	0x00
			Dark				0x01
			Darker				0x02
			Darkest				0x03
		Dynamic Contrast	Off			0x01	0x00
			Low				0x01
			Medium				0x02
			Hlgh				0x03
		Gamma	-3 ~ 3			0x03	(-3~3)
		RGB Only Mode	Off			0x05	0x00
			Red				0x01
			Green				0x02
			Blue				0x03
		Color Space	Auto			0x06	0x00
			Native				0x01
			Custom				0x02
		White Balance	R-Offset(LCD)			0x07	(-50~50)
		White Balance	G-Offset(LCD)			0x08	(-50~50)
		White Balance	B-Offset(LCD)			0x09	(-50~50)
		White Balance	R-Gain(LCD)			0x0a	(-50~50)
		White Balance	G-Gain(LCD)			0x0b	(-50~50)
		White Balance	B-Gain(LCD)			0x0c	(-50~50)
		White Balance	Reset(LCD)			0x0d	0x00
		Flesh Tone	-15 ~ 15			0x0e	(-15~15)
		xvYCC	Off			0x10	0x00
			On				0x01
		Motion Lighting	Off			0x11	0x00
			On				0x01
		Color Space Custom Color	Red			0x12	0x00
			Green				0x01
			Blue				0x02

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Advanced Settings	Color Space Custom Color	Yellow				0x03
			Cyan				0x04
			Magenta				0x05
		Color Space Custom Color Red Value	0~100			0x13	0~100
		Color Space Custom Color Green Value	0~100			0x14	0~100
		Color Space Custom Color Blue Value	0~100			0x15	0~100
		Reset				0x16	0x00
		LED Motion Plus	Off		0x0a	0x07	0x00
			On(Normal)				0x01
			Cinema				0x02
			Ticker				0x03
		10p White Balance	Off		0x0e	0x00	0
			On			0x00	1
			Red		0x0f	(1~10)	(-50~50)
			Green		0x10	(1~10)	(-50~50)
			Blue		0x11	(1~10)	(-50~50)
			Reset		0x12	0	(1~10)
			10 Point		0x13	0x00	0x00
			Interval		0x14	0x00	0x00
	Picture Option	Color Tone	Cool		0x0a	0x00	0x00
			Standard				0x01
			Warm1				0x02
			Warm2				0x03
		Digital Noise Filter	Off			0x02	0x00
			Low				0x01
			Medium				0x02
			High				0x03
			Auto				0x04
			Auto Visualization				0x05
		MPEG Noise Filter	Off			0x03	0x00
			Low				0x01
			Medium				0x02
			High				0x03
			Auto				0x04
		HDMI Black Level	Normal			0x04	0x00
		HDMI Black Level	Low				0x01

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Picture Option	Film Mode	Off			0x05	0x00
		Film Mode	Auto1				0x01
			Auto2				0x02
			Cinema Smooth				0x03
		Auto Motion Plus	Off			0x06	0x00
			Clear				0x01
			Standard				0x02
			Smooth				0x03
			Custom				0x04
		Blur Reduction				0x07	value
		Judder Reduction				0x08	value
		LED Clear Motion				0x09	Off
		Reset				0x10	0x00
		HDMI UHD Color	Off			0x11	0x00
			On				0x01
		Analog Clean View	On			0x12	0x00
			Off				0x01
	Screen Adjustment	Picture Size	16:9	0x0c	0x0a	0x01	0x00
			Zoom1				0x01
			Zoom2				0x02
			Wide Fit				0x03
			4:3				0x04
			Screen Fit				0x05
			Smart View I				0x06
			Smart View II				0x07
			Auto Wide				0x08
			Wide Zoom				0x09
			Zoom				0x0a
		Fit to Screen	Off		0x0b	0x00	0x00
		Zoom	Zoom1		0x0c	0x00	0x00
			Zoom2				0x01
			Zoom3				0x02
			Zoom4				0x03
		Position	Position1			0x01	0x00
			Position2				0x01
			Position3				0x02
			Position4				0x03
	Screen Adjustment	Reset			0x0d	0x00	0x00

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Reset Picture	Reset Picture		0x0d	0x0b	0x00	0x00
	3D	3D Mode	Off	0x0e	0x0c	0x00	0x00
			2D->3D				0x01
			Side By Side				0x02
			Top Bottom				0x03
			Line By Line				0x04
			Vertical Line				0x05
			Checker BD				0x06
			Frame Sequence				0x07
		3D->2D	Off			0x01	0x00
			On				0x01
		3D View Point				0x02	(-5~5)
		Depth				0x03	(1~10)
		3D Auto View	Off			0x05	0x00
			Message Notice				0x01
			On				0x02
			Auto1				0x03
			Auto2				0x04
		3D Light Control	Low			0x06	0x00
			High				0x01
		L/R Change	L to R			0x07	0x00
			R to L				0x01
		3D Perspective				0x08	value
		Optimize				0x09	value
	Factory-SVB	Expert-N/D Adj	On	0x0b	0x0d	0x00	0x00
			Off				0x01
			Fix				0x02
	Apply Picture Mode	All Sources		0x0f	0x00	0x00	0x00
		Current Source					0x01
	Pip	Pip	Off	0x11	0x00	0x00	0x00
			On				0x01
		Antenna	Cable			0x01	0x00
			Air				0x01
		Channel	DTV Cable			0x02	0x00
			DTV Terrestrial				0x01
		Size	Size1			0x03	0x00

Control Item				Cmd1	Cmd2	Cmd3	Value
PICTURE	Pip	Size	Size2				0x01
			Size3				0x02
			Size4				0x03
		Position	Position1			0x04	0x00
			Position2				0x01
			Position3				0x02
			Position4				0x03
		Sound Select	Main			0x05	0x00
			Sub				0x01
	Picture Off			0x12	0x00	0x00	0x00
Sound	Sound Mode	Standard		0x0c	0x00	0x00	0x00
		Music					0x01
		Movie					0x02
		Clear Voice					0x03
		Amplify					0x04
	Equalizer	Balance			0x01	0x00	(0~20)
		100hz				0x01	(0~20)
		300hz				0x02	(0~20)
		1khz				0x03	(0~20)
		3khz				0x04	(0~20)
		10khz				0x05	(0~20)
		Reset				0x06	0x00
	SRS TruSurround HD	Off			0x02	0x00	0x00
	Virtual Surrond	On					0x01
	SRS TruDialog	Off			0x03	0x00	0x00
	Dialog Clarify	On					0x01
	Preferred Language	English			0x04	0x00	0x00
		Spanish					0x01
		French					0x02
		Korean					0x03
		Japanese					0x04
	Multi-Track Sound	Mono			0x05	0x00	0x00
		Stereo					0x01
		SAP					0x02
	Auto Volume	Off			0x06	0x00	0x00
	Auto Volume	Normal					0x01
		Night					0x02
	Speaker Select	TV Speaker			0x07	0x00	0x00

Control Item				Cmd1	Cmd2	Cmd3	Value
Sound		External Speaker					0x01
	Speaker Select	Audio Out					0x01
	Sound Select	Main			0x08	0x00	0x00
		Sub					0x01
	Sound Reset	Sound Reset			0x09	0x00	0x00
	3D Audio	Off			0x0a	0x00	0x00
		Low					0x01
		Medium					0x02
		High					0x03
	Auto Stereo	Manual			0x0b	0x00	0x00
		Auto					0x01
	TV Installation Type	Stand			0x0c	0x00	0x00
		Wallmount					0x01
	Audio Delay	Dealy Value (0~250)			0x0d	0x00	0~250 (0x00~0xFA)
	SRS CS Headphone	Off			0x0e	0x00	0x00
	Balance				0x0f	0x00	0x00
	Add New Device	On			0x10	0x00	0x00
		Off					0x01
	Audo Multi-Output	Off			0x11	0x00	0x00
	Multiroom Link Settings	Multiroom			0x12	0x00	0x00
	HDMI Audio Input Format	Bitstream			0x13	0x00	0x00
		PCM					0x01
	Audio Format	PCM			0x14	0x00	0x00
		Dolby Digital					0x01
		DTS					0x02
		DTS Neo 2:5					0x03
		AAC/HEAAC					0x04
	Dolby Digital Comp	RF			0x15	0x00	0x01
	HD Audio	Off			0x16	0x00	0x00
		On					0x01
KEY	Key Generation			0x0d	0x00	0x00	*Refer for Table
OSD	Show/Hide Control	Show		0x0e	0x00	0x00	0x00
		Hide					0x01
Get Status	Power (On/Off)			0xf0	0x00	0x00	0x00
Get Status	Volume(0~100)			0xf0	0x01	0x00	0x00

4. Troubleshooting

Control Item		Cmd1	Cmd2	Cmd3	Value
	Mute (On/Off)	0xf0	0x02	0x00	0x00
	Channel Number	0xf0	0x03	0x00	0x00
Get Status	Source (TV/AV/.../HDMI/...)	0xf0	0x04	0x00	0x00
	Picture Size	0xf0	0x05	0x00	0x00
	3D (On/Off)	0xf0	0x06	0x00	0x00
	Picture Mode	0xf0	0x07	0x00	0x00
	Sound Mode	0xf0	0x08	0x00	0x00

* Refer for Table

KEY	Value
Up	96 (0x60)
Down	97 (0x61)
Left	101 (0x65)
Right	98 (0x62)
Menu	26 (0x1A)
Enter(OK)	104 (0x68)
EXIT	45 (0x2D)

4-6. Updating the TV's Software

View your TV's software version and update it if necessary.

- [Settings](#) → [Support](#) → [Software Update](#)

■ Updating the TV's software to the latest version

- [Settings](#) → [Support](#) → [Software Update](#) → [Update now](#)

You can update your TV's software by downloading the update from the Internet directly to your TV or copying the update from a USB device that contains it to your TV.

- Updating from the Internet requires an active Internet connection.
- To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.



CAUTION

DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. All video and audio settings return to their default settings after a software update.

■ Updating the TV automatically

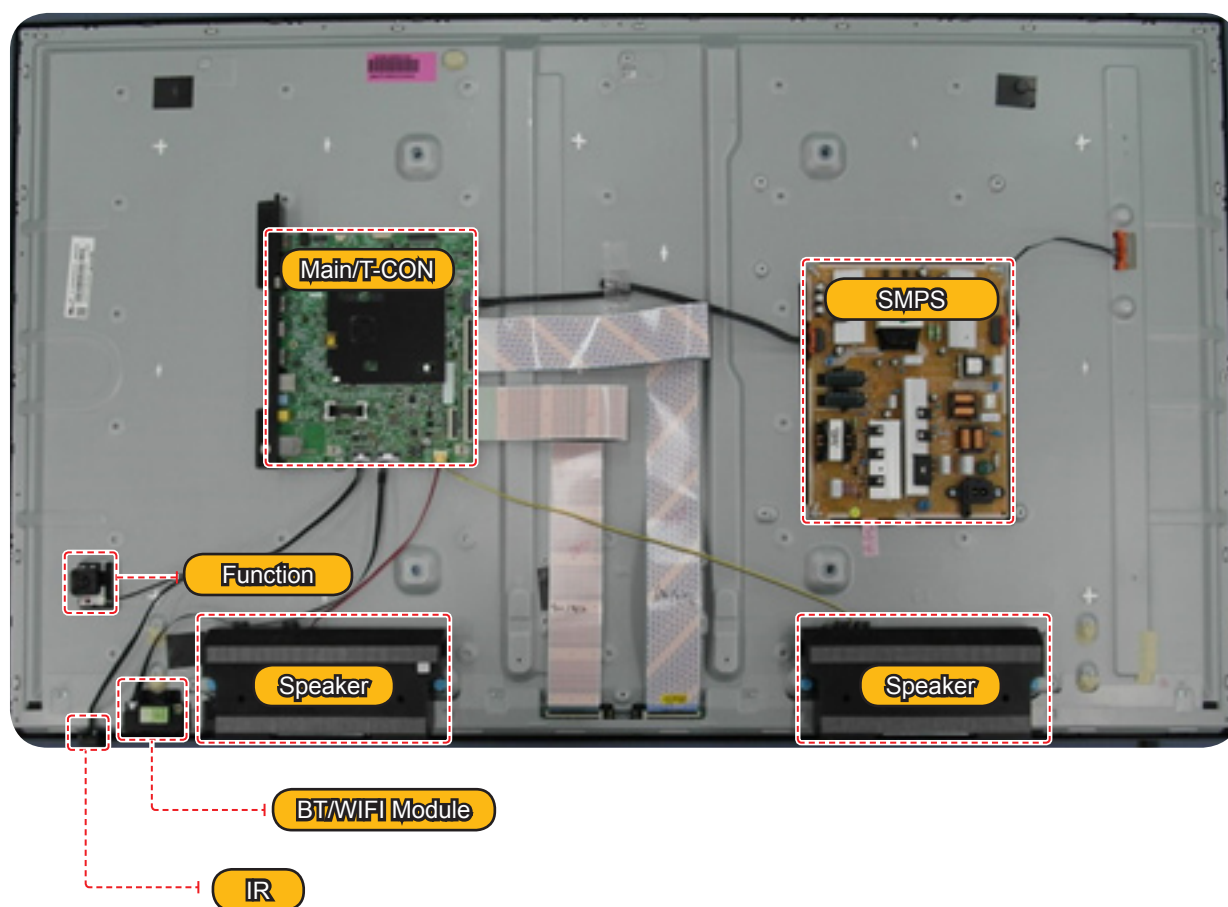
- [Settings](#) → [Support](#) → [Software Update](#) → [Auto Update](#)

If the TV is connected to the Internet, you can have the TV's software update itself automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

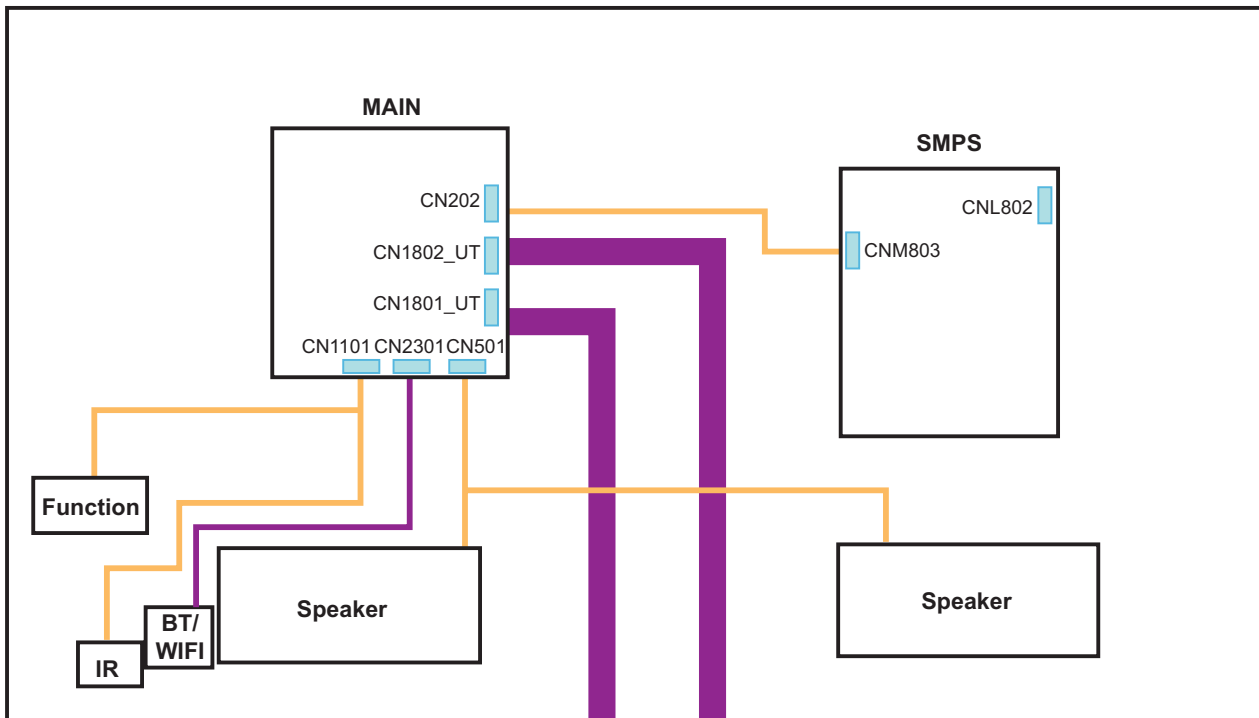
- This function may take a longer time if another network function is running concurrently.
- This function requires an Internet connection.
- If you agree to the Smart Hub terms and conditions, [Auto Update](#) is set to [On](#) automatically. If you do not want the TV's software to update itself automatically, set [Auto Update](#) to [Off](#).

5. Wiring Diagram

5-1. Layout

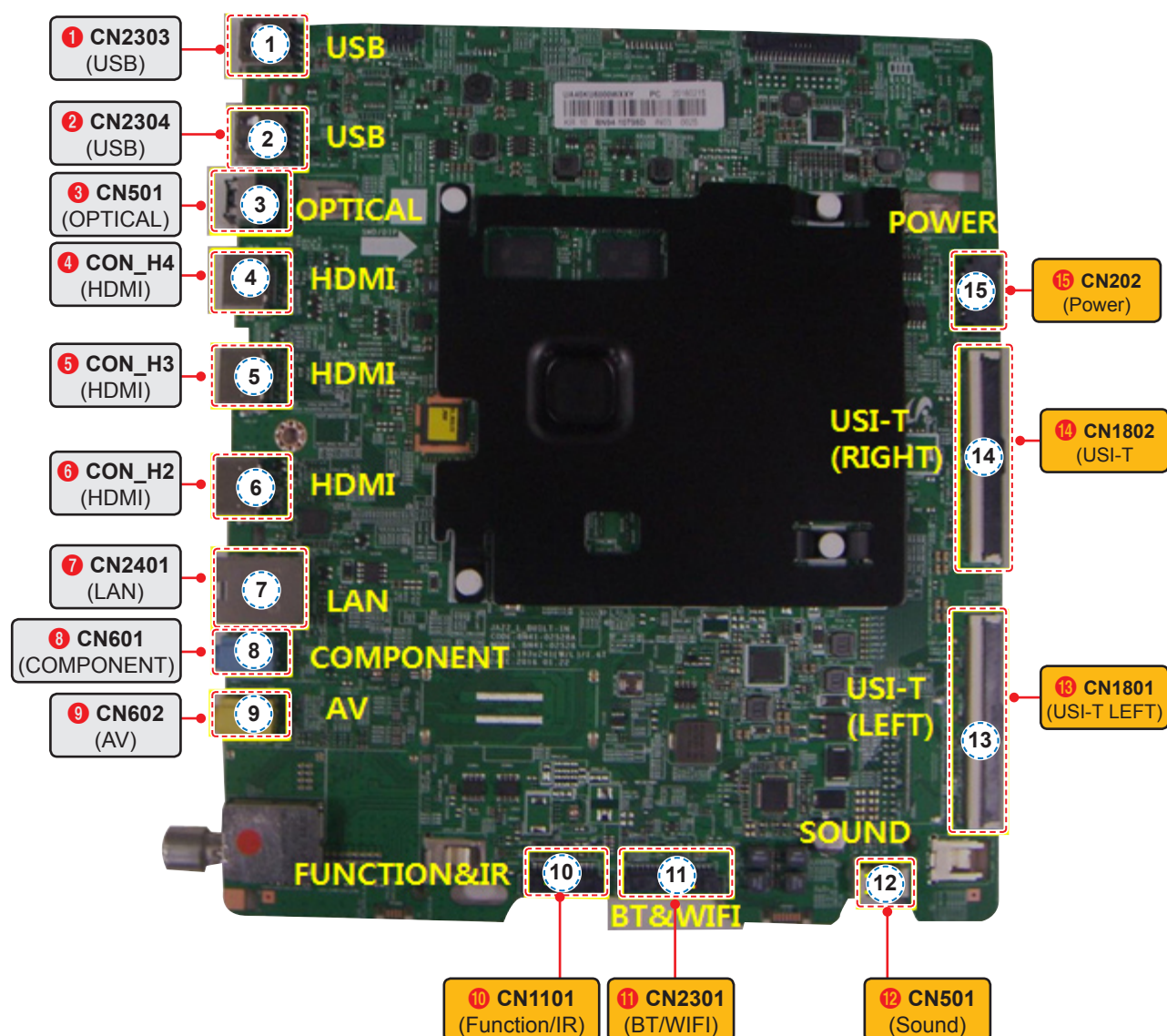


5-2. Wiring Diagram



5-3. Connector

5-3-1. Main Board



■ Main Board Pin Map

1 CN2303 (USB)				6 CON_H2 (HDMI)			
1	A5V_USB2_PW	2	JACK_D+_USB2	1	HDMI2_RX2+_HDMI	11	GND
3	JACK_D-_USB2	4	GND	2	GND	12	HDMI2_RXC-_HDMI
				3	HDMI2_RX2-_HDMI	13	CEC
				4	HDMI2_RX1+_HDMI	14	GND
2 CN2304 (USB)				5	GND	15	HDMI2_SCL_DDC
1	B5V_USB1_PW	2	JACK_D+_USB1	6	HDMI2_RX1-_HDMI	16	HDMI2_SDA_DDC
3	JACK_D-_USB1	4	GND	7	HDMI2_RX0+_HDMI	17	GND
				8	GND	18	HDMI2_IDENT
3 CN501 (OPTICAL)				9	HDMI2_RX0-_HDMI	19	HDMI2_HPD
1	SPDIF_OUT	2	GND	10	HDMI2_RXC+_HDMI		
3	B5V_PW						
				7 CN2401_LAN (LAN)			
4 CON_H4 (HDMI)				1	LAN_TXD+_LAN	5	GND
1	HDMI4_RX2+_HDMI	11	GND	2	GND	6	LAN_RXD-_LAN
2	GND	12	HDMI4_RXC-_HDMI	3	LAN_TXD-_LAN	7	NC
3	HDMI4_RX2-_HDMI	13	CEC	4	LAN_RXD+_LAN	8	GND
4	HDMI4_RX1+_HDMI	14	GND				
5	GND	15	HDMI4_SCL_DDC	8 CN601 (COMPONENT)			
6	HDMI4_RX1-_HDMI	16	HDMI4_SDA_DDC	1	GND	5	TEST_SR
7	HDMI4_RX0+_HDMI	17	GND	2	COMP_PB	6	GND
8	GND	18	HDMI4_IDENT	3	COMP_PR	7	GND
9	HDMI4_RX0-_HDMI	19	HDMI4_HPD	4	IDENT_VIDEO		
10	HDMI4_RXC+_HDMI						
				9 CN602 (AV)			
5 CON_H3 (HDMI)				1	GND	5	TEST_SR
1	HDMI3_RX2+_HDMI	11	GND	2	AV1_CVBS_IN	6	TEST_SL
2	GND	12	HDMI3_RXC-_HDMI	3	COMP_AV1_SR_IN	7	COMP_AV1_SL_IN
3	HDMI3_RX2-_HDMI	13	CEC	4	IDENT_VIDEO		
4	HDMI3_RX1+_HDMI	14	GND				
5	GND	15	HDMI3_SCL_DDC	10 CN1101 (FUNCTION/IR)			
6	HDMI3_RX1-_HDMI	16	HDMI3_SDA_DDC	1	IR	7	KEY_INPUT2
7	HDMI3_RX0+_HDMI	17	GND	2	GND	8	LED_STB_OUT
8	GND	18	HDMI3_IDENT	3	A3.3V_PW	9	NC
9	HDMI3_RX0-_HDMI	19	HDMI3_HPD	4	AMP_SCL_I2C	10	NC
10	HDMI3_RXC+_HDMI			5	AMP_SDA_I2C	11	NC
				6	KEY_INPUT1	12	NC

11 CN2301 (BT/WIFI)

1	BT_NRESET	9	WIFI_PHY_ON
2	BT_MODULE_WAKE	10	GND
3	BT_WAKE	11	WIFI_D+_USB
4	GND	12	WIFI_D-_USB
5	BT_D-_USB	13	GND
6	BT_D+_USB	14	A5V_PW
7	GND	15	WIFI_WOL
8	BT_WELCOMP	16	WIFI_NRESET

12 CN501 (SOUND)

1	OUT_C	3	OUT_A
2	OUT_D	4	OUT_B

15 CN202 (POWER)

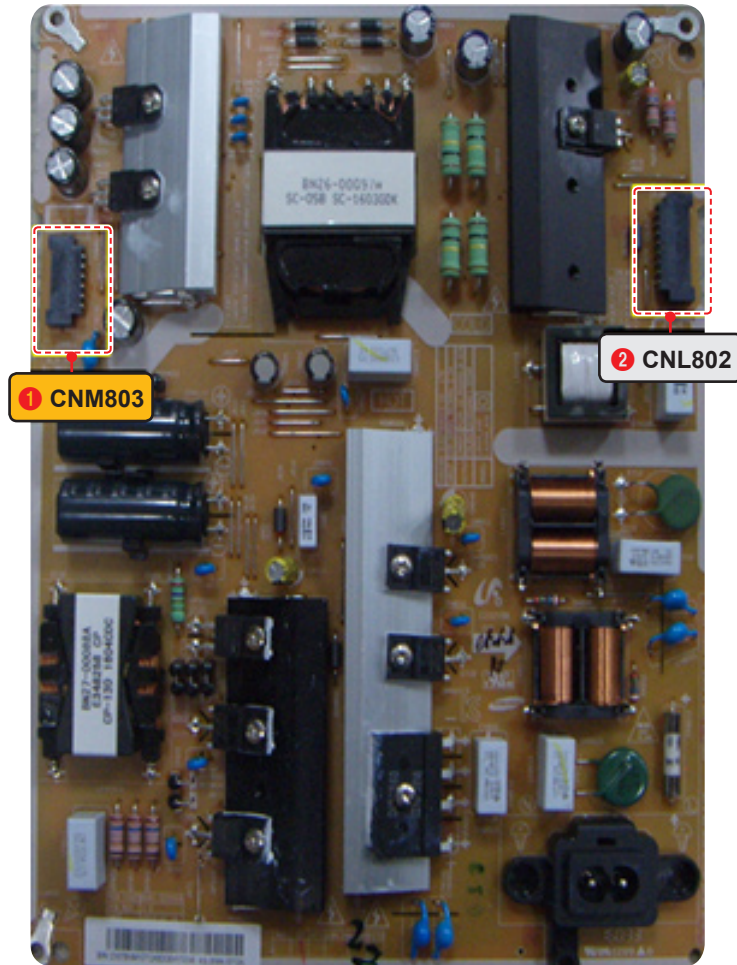
1	GND	7	A13V_PW
2	GND	8	PWM_DIMMING_OUT1
3	A13V_PW	9	A13V_PW
4	GND	10	OVD_ON_OFF
5	A13V_PW	11	SMPS_FET_FAIL_ DEFECT
6	SW_POWER	12	ANA_DIMMING

5. Wiring Diagram

13 CN1801 (USI-T LEFT)							
1	FB_TRDY_1	2	GND	3	PANEL_3.3V_PW	4	PANEL_3.3V_PW
5	FB_VCOM1_2CELL	6	VCOM1_CELL	7	VCOM2_CELL	8	VCOM3_CELL
9	VSS_-7.5V_PW	10	VOFF_-11V_PW	11	-	12	CKV1_MB4
13	CKV2_MB4	14	CKV3_MB4	15	CKV4_MB4	16	CKVB1_MB4
17	CKVB2_MB4	18	CKVB3_MB4	19	CKVB4_MB4	20	STVP_MB4
21	ASG_MON_L_MB4	22	-	23	GND	24	GND
25	DEMURA_SSPHOLD_SPI	26	DEMURA_SSPWP_SPI	27	DEMURA_SSPRXD_SPI	28	DEMURA_SSPTXD_SPI
29	DEMURA_SSPFRM_SPI	30	DEMURA_SSPCLK_SPI	31	GND	32	JM_USIT_TX_CH0_A+
33	JM_USIT_TX_CH0_A-	34	GND	35	JM_USIT_TX_CH0_B+	36	JM_USIT_TX_CH0_B-
37	GND	38	JM_USIT_TX_CH1_A+	39	JM_USIT_TX_CH1_A-	40	GND
41	JM_USIT_TX_CH1_B+	42	JM_USIT_TX_CH1_B-	43	GND	44	JM_USIT_TX_CH2_A+
45	JM_USIT_TX_CH2_A-	46	GND	47	JM_USIT_TX_CH2_B+	48	JM_USIT_TX_CH2_B-
49	GND	50	JM_USIT_TX_CH3_A+	51	JM_USIT_TX_CH3_A-	52	GND
53	JM_USIT_TX_CH3_B+	54	JM_USIT_TX_CH3_B-	55	GND	56	JM_USIT_TX_CH4_A+
57	JM_USIT_TX_CH4_A-	58	GND	59	JM_USIT_TX_CH4_B+	60	JM_USIT_TX_CH4_B-
61	GND	62	JM_USIT_TX_CH5_A+	63	JM_USIT_TX_CH5_A-	64	GND
65	JM_USIT_TX_CH5_B+	66	JM_USIT_TX_CH5_B-	67	GND	68	JM_USIT_TX_CH6_A+
69	JM_USIT_TX_CH6_A-	70	GND	71	JM_USIT_TX_CH6_B+	72	JM_USIT_TX_CH6_B-
73	GND	74	JM_USIT_TX_CH7_A+	75	JM_USIT_TX_CH7_A-	76	GND
77	JM_USIT_TX_CH7_B+	78	JM_USIT_TX_CH7_B-	79	GND	80	SFC1
81	GND	82	PI_DSF_MONITOR	83	PORTNUM	84	VCCA_1.9V_PW
85	VCCB_1.8V_PW	86	L_L_CELL	87	L_H_CELL	88	HAVDD_8.5V_PW
89	U_L_CELL	90	U_H_CELL	91	AVDD_17V_PW	92	AVDD_17V_PW
93	AVDD_17V_PW	94	AVDD_17V_PW	95	-	96	FB_TRDY_2

14 CN1802 (USI-T RIGHT)					
1	FB_TRDY_E	2	GND	3	AVDD_17V_PW
5	AVDD_17V_PW	6	AVDD_17V_PW	7	U_H_CELL
9	HAVDD_8.5V_PW	10	L_H_CELL	11	L_L_CELL
13	VCCA_1.9V_PW	14	PI_DSF_MONITOR	15	PORTNUM
17	-	18	-	19	-
21	SFC1	22	GND	23	JM_USIT_TX_CH8_A+
25	GND	26	JM_USIT_TX_CH8_B+	27	JM_USIT_TX_CH8_B-
29	JM_USIT_TX_CH9_A+	30	JM_USIT_TX_CH9_A-	31	GND
33	JM_USIT_TX_CH9_B-	34	GND	35	JM_USIT_TX_CH10_A+
37	GND	38	JM_USIT_TX_CH10_B+	39	JM_USIT_TX_CH10_B-
41	JM_USIT_TX_CH11_A+	42	JM_USIT_TX_CH11_A-	43	GND
45	JM_USIT_TX_CH11_B-	46	GND	47	JM_USIT_TX_CH12_A+
49	GND	50	JM_USIT_TX_CH12_B+	51	JM_USIT_TX_CH12_B-
53	JM_USIT_TX_CH13_A+	54	JM_USIT_TX_CH13_A-	55	GND
57	JM_USIT_TX_CH13_B-	58	GND	59	JM_USIT_TX_CH14_A+
61	GND	62	JM_USIT_TX_CH13_B+	63	JM_USIT_TX_CH14_B-
65	JM_USIT_TX_CH15_A+	66	JM_USIT_TX_CH13_A-	67	GND
69	JM_USIT_TX_CH15_B-	70	GND	71	SFC2
73	-	74	ASG_MON_R_MB4	75	STVP_MB4
77	CKVB3_MB4	78	CKVB2_MB4	79	CKVB1_MB4
81	CKV3_MB4	82	CKV2_MB4	83	CKV1_MB4
85	VOFF_-11V_PW	86	VSS_-7.5V_PW	87	-
89	FB_VCOM3_CELL	90	VCOM2_CELL	91	VCOM1_CELL
93	PANEL_3.3V_PW	94	PANEL_3.3V_PW	95	FB_TRDY_3
				96	GND

5-3-2. SMPS Board



■ SMPS Board Pin Map

1 CNM803			
1	Fail Count	7	A13V
2	ANA-DIM	8	POWER_ON/OFF
3	A13V	9	A13V
4	OD_ON/OFF	10	GND
5	A13V	11	GND
6	BLU_PWM	12	GND

2 CNL802			
1	2+	9	1+
2	NC	10	NC
3	NC	11	NC
4	2-	12	1-
5	NC	13	NC
6	NC	14	NC
7	NC	15	IF2
8	NC	16	IF1