Technical Description

The equipment under test (EUT) is a TV Soundbar. It is powered by AC110-120V, 60Hz. For more detailed features description, please refer to the user's manual.

BT 3.0+EDR Channel List

2402	2403	2404	2405	2406	2407	2408	2409	2410
2411	2412	2413	2414	2415	2416	2417	2418	2419
2420	2421	2422	2423	2424	2425	2426	2427	2428
2429	2430	2431	2432	2433	2434	2435	2436	2437
2438	2439	2440	2441	2442	2443	2444	2445	2446
2447	2448	2449	2450	2451	2452	2453	2454	2455
2456	2457	2458	2459	2460	2461	2462	2463	2464
2465	2466	2467	2468	2469	2470	2471	2472	2473
2474	2475	2476	2477	2478	2479	2480		

BT 4.0 Channel List

2402	2404	2406	2408	2410	2412	2414	2416	2418
2420	2422	2424	2426	2428	2430	2432	2434	2436
2438	2440	2442	2444	2446	2448	2450	2452	2454
2456	2458	2460	2462	2464	2466	2468	2470	2472
2474	2476	2478	2480					

Modulation Type: GFSK for BT4.0 and GFSK, ∏/4DQPSK, 8DPSK for BT 3.0+EDR
Bluetooth Version: 4.0 and 3.0+EDR
Antenna Type: Integral antenna
Antenna Gain: 1dBi
The nominal radiated output power (e.i.r.p) specified: 3dBm (Tolerance: +/- 3dB)

The function of main IC is mentioned as below:

1. **In Main Board:**
   1) U1 acts as Audio Processor
   2) U2, U3 acts as Switch IC
   3) U4 acts as S/PDIF Decoder
   4) U5 acts as Power Amplifier
   5) U6 acts as Audio Codec
   6) U7 acts as Operational Amplifier
   7) U8 acts as Dual Inverter
   8) U9, U10 acts as LDO
   9) U11 acts as Reset IC
   10) U12 acts as MCU
   11) U13 acts as EEPROM
   12) Y1 is a 12.288MHz oscillator for U1
   13) Y2 is a 32.768KHz oscillator for U12
2. **In Display Board:**
   1) IC1 acts as VFD Driver IC

2) U2 acts as Touchkey IC

3. **In Power Board:**
   1) IC1 acts as PWM Power Switch IC
4. **In Bluetooth Module:**
   1) U1 acts as Bluetooth Chip
   2) U3 acts as Band Pass Filter
   3) U4 acts as EEPROM
   4) X1 is a 16MHz oscillator for Bluetooth Chip
5. **In HDMI Repeater Board:**
   1) IC801 acts as HDMI Switch & repeater
   2) IC802 acts as MCU
   3) Y801 is a 18.432MHz oscillator for IC801
   4) Y802 is a 24MHz oscillator for IC802