

## 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,  $\pi$ /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