

# Operational Description

## 1. Power source circuit

- 1) If 5V adapter is connected to P3 or P4, the power will be supplied U10, PMIC, and will source appropriate power to each parts
- 2) Connect adapter to P4 when using on the window or wall; P3 when using on the floor.

## 2. Receiving section

- 1) The signal received through ATSC antenna will be transferred to U6, RF IC, by CON1, and will be demodulated by U7 demodulator.
- 2) External antennas can be used as well. In that case, the signal will be transfer to U6 by CON2.
- 3) Depending upon the strength of the signal, the AP will turn ON/OFF the U17, LNA.

## 3. Transmitting section

- 1) The demodulated signal will be changed to WI-FI signal by U8, the WI-FI module, and transmitted to the receivers (smart phones, tables and other media devices)

## 4. Manually operating section and indicating section

- 1) The device will operate immediately when the adapter is connected since there is no power SW.
- 2) When the booting is complete, the Blue LED light will come on.
- 3) Broadcasting contents can be saved to USB memory or microSD, and can be replayed.

