

## Operational description

### Power supply:

The different supply voltages are made by a Power Management Unit (PMU), from the embedded battery, and the normal battery voltage is 3.7V.

Battery charger: Controls charge current and voltage for the Lithium Polymer battery, The supply voltage is made by the AC adapter with DC 5V.

### CPU: 3735f

This is the System-On-Chip processor and DDR.

Data storage is done on a flash memory.

There is an interface for an external microSD card.

There is an interface with the built in camera.

WiFi used the FN-LINK /MT8723module, antenna is an internal antenna, not intergrated on the PCB and the antenna gain is 2dBi.

Also only use an antenna with SISO function.

For WIFI mode: According to IEEE 802.11 b/g/n standards.

Operational frequency range is 2412 to 2462MHz /2422 to2452MHz ,

With DSSS and OFDM modulation,

The WiFi mode supports communication data only.

For Bluetooth, the frequency range is 2402-2480MHz, with modulation of GFSK,pi/4 DQPSK,8DPSK.

The audio codec is connected directly to the CPU

The TSP controller is combined on the TSP, and connected directly to the CPU