

## 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 /MT8723 module, antenna is an internal antenna, not intergraded 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 to 2452MHz,

With DSSS and OFDM modulation,

Max rate are 11Mbps (802.11b), 54Mbps (802.11g) and 65Mbps (802.11n).

Conducted output power are 15.79dBm (802.11b), 16.77dBm (802.11g), 16.36dBm (802.11n20) and 18.5 dBm (802.11N40).

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