

### Input Power and Charger

The battery charger of A7P is MAX8677. MAX8677 is with double Power supply (DC and USB) input integrated single day Li + battery charger and Smart Power Selector Selector. A7P equipment using DC external power supply.

MAX8677 with Smart Power Selecto, the most effective use of communication adapter Power supply. Can choose charging circuit, through the external resistors A7P equipment set up in 1.5 A charging current. MAX8677 recharging the battery can be set is divided into three stages: pre charge, constant current and constant voltage. In all stages of the internal control circuit monitoring charging current junction temperature, reduce the internal temperature exceeds the threshold.

MAX8677 include overvoltage protection (OVP) and indications for charging status.

### MAX8660 power management IC

A7P equipment using power management chip for MAX8660. Type MAX8660 chip integrates four-way step-down DC - DC output, three linear voltage regulator, a regular power management circuits. Two way for dynamic adjusting DC - DC processor core, memory, power supply; The other two lines of DC - DC converter for the I/O, memory and other peripherals.

All type step-down DC - DC converter adopts high speed 2 MHZ PWM switch, can automatically switch from PWM mode to funny light load work mode, in order to reduce the working current, extend battery life.

### LCD:

**Use 2.8 inch Industrial Transflective Screen.** Clearly readable even under direct sunlight, provide great guarantee of outdoor operation

### Audio + Touchpanel CODEC

The Audio + Touchpanel CODEC of A7P is WM9713. The WM9713L is a highly integrated input/output device designed for mobile computing and communications.

The chip is architected for dual CODEC operation, supporting Hi-Fi stereo Codec functions via the AC link interface. A third Aux DAC is provided which may be used to support generation of supervisory tones, or ring-tones etc. at different sample rates to the main codec.

The device can connect directly to a 4-wire touchpanel, mono or stereo microphones, stereo headphones and a stereo speaker, reducing total component count in the system.

All device functions are accessed and controlled through a single AC-Link interface compliant with the AC' 97 standard.

The WM9713L operates at supply voltages from 1.8 to 3.6 Volts. Each section of the chip can be powered down under software control to save power.

**WLAN+BT**

A7P devices using wireless module for GB86321 module.

Wireless module accord with standard of IEEE 802.11 b/g/n, it can realize the speed of 72.2 MBPS and sheet flow in the draft 802.11 n, 54 MBPS specified in IEEE 802.11 g, or 11 MBPS IEEE 802.11 b is connected to the wireless local area network (LAN).Integration module provides the SDIO wi-fi and bluetooth UART interface interface.