Description

1, Wireless communication:

The voting machine launcher's wireless communication electric circuit is use wireless prosperous times company's 2.4G the ZIGBEE wireless communication module, what its core part uses was CHIPCON Corporation's CC2430 chip, in CC2430 integrated 2.4G the ZIGBEE communication circuit and a 51 essence monolithic integrated circuit.

2, Power

The launcher's power source is by the 2.4V battery after 3.3V DC to DC pressure-rise supplies launcher various part.

3, Charging circuit

A: When the battery voltage is lower than 2.60V (is battery demonstration is not full standard), joins external connection DC5V, this time DC5V will give will not be Man Dian the nickel hydrogen battery charge.

B: The start, MCU will control the MOS tube (Q1) to open, the big electric current will carry on the charge to the battery. (electric current: 100MA~200MA)

C: When big electric current charge, when examines the battery voltage to achieve 2.83V (sufficiently 90% full), MCU will shut off the MOS tube (Q1), will change to the brook class

to continue to the battery to charge. (brook class electric current: 40MA~50MA)

D: Opens from the MOS tube (Q1), the big electric current charge starts in 11 hours, the battery voltage has not achieved 2.83V (90% sufficiently full), then the electric circuit automatic cutout MOS tube (Q1), will change to the brook class to continue to the battery to charge. (brook class electric current: 40MA~50MA)

E: So long as external connection DC5V has joined, Regardless of the supply voltage is how many, its trickling charge's electric current has existed. Until user elimination external connection DC5V.

4, Display

Display central is just using LCD ,which is drived by IC of HT 1623.

5, Key-press

Pressed key's principle is each pressed key end and the 3.3V power source, in 20 connect as soon as in the together resistance the corresponding resistance looks carefully meets, in another end and CC2430 integrates 51 monolithic integrated circuit's A/D transformation port docking. When the different pressed key presses down will have a

corresponding different 3.3V differential pressure value, will benefit monolithic integrated circuit's A/D to distinguish this voltage again, each voltage value will correspond a pressed key value.

6, Read card

Reads the card electric circuit to use 51 monolithic integrated circuit's two I/O base pins which in CC2430 integrates to integrate in the card 24C02 EEPROM carries on the read.