

The working principle of products

By switching power supply system of the scheme as LDO + power module. External input voltage switching power supply will convert to driver module, 5VDC, rf modules, antenna module power supply. Through converting 5VDC LDO 3.3 V to MCU module, communication module, keyboard module, display module power supply. External input voltage LDO after conversion to rf modules 7.5 V.

MCU module was collected keyboard module, control key driver module, display module, communication module.

Interface modules including the internal and external interface, including interface including keyboard interface, internal interface testing interface, antenna, External interface including external connection, and each signal system.

Communication module includes communication and RS232 communication, we communication interface RS485.

Antenna module by EMC filter, antenna matching circuit, PCB antenna is composed; Rf modules by rf base station RC522 and peripheral circuit chip MF composed. Rf modules of 13.56 MHZ rf signals generated by antenna module, send out. Card also have a antenna and resonance 13.56 MHZ, according to the principle of electromagnetic induction 13.56 MHZ, when CARDS in the electromagnetic field, the resonance and get card antenna card information in energy, send out signals again by the antenna module to rf modules demodulation get the correct data, then transmitted to the MCU module processing.