

Rdm530 Diagram Block Description

The RDM530/RDM510/RDM520 Desktop Reader is a ISO14443 A,B and ISO15693, read/write device with a typical operating distance of 50-100mm.

The RDM530/RDM510/RDM520 combines all basic functions to access the ISO14443A,B and ISO15693. Including Mifare® Smart Card, TI Card, EM Card etc. Its versatility allows a flexible and efficient application in different configurations and system devices. It can be integrated easily into existing data collection applications such as portable terminals, ticketing, machines vending or access control, etc...

The RDM530/RDM510/RDM520 Desktop Reader was designed for simple integration. Which has supplied RS232, USB, PS2, TCP/IP interface (selected) can be directly connected to computer or other microcomputer. The protocol can be tested using any terminal. The RDM530/RDM510/RDM520 have USB or RS232 interface which compliant with PC/SC V2.0 specifications

Basic principle description:

According to ISO14443A/B, ISO15693 standard, the Microprocessor(U1) and Basic frequency(13.56MHz) state(X1) will generate a specific signal, Amplifier(U2) the signal and sending out through antenna circuitry.

The ISO14443A/B, ISO15693 card will get a response information for identification while it approach the transmit antenna. The receiver circuitry part will be accepting & transform it, and inform the microcomputer as well. The microcomputer based on the set program to read & write the card to fulfill the specific function.

The performance of specific program setting & function is fulfilled by interface circuitry. This could be done via the smart connection between interface circuitry & computer or others smart device. Interface could be RS232, USB, PS2, or TCP/IP.

Status output indicated the status during the operation, the operation process could be monitor and show the operation is correct or not.

Concluded above details for RDM530/RDM510/RDM520, the Desktop Reader with integrated function, fully compliance with ISO14443A/B,ISO15693 contactless card international standard for read & write.