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RFID EM Module

User Manual

Ver 1.0

Product Description

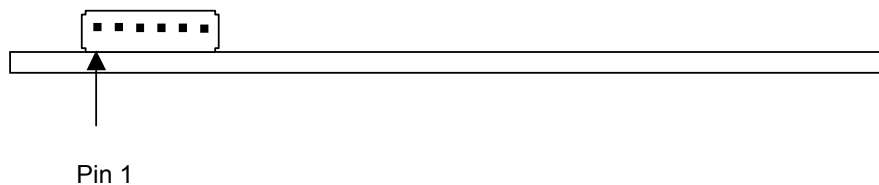
RFID EM reader is a full function reader / writer operating in the 13.56MHz frequency band. RFID EM complies with the internationally recognized ISO-15693 standards. This RFID reader supports both Windows CE 4.2 / 4.21 and the Windows Mobile 5.0 operating system.

RFID EM reader comes with integrated antenna and uses only +3.3VDC as its power supply. It is ideal for mobile device integration and no external antenna is required.

Connectivity

RFID EM reader communicates with external device through its system connector. The system connector supplies RFID EM reader with DC power and RS-232 (TTL level) signals for data exchange. The system connector is a 1.0mm pitch male mini connector. The signals are being described in the table below:

Pin	Signal Name	Description
1	PWR	+3.3VDC input
2	GND	Ground
3	TXD	RS-232 TX data, TTL level
4	RXD	RS-232 RX data, TTL level
5	RFU	Reserved for future usage
6	N/C	Not connected



LED Indicator

There are two LED on the RFID EM module, a Green LED and a RED LED. The Green LED will flash twice with duration of 0.5 sec upon power on and will stay off afterward. The Green LED will flash once (0.1sec ON) if any command issued through the system connector is executed successfully. The RED LED will flash once (0.1 sec ON) if command received through the system connector is not being carried out successfully.

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.