

## MF1-R-232-W1-EV

### RFID Read-Only Reader

#### GENERAL DESCRIPTION

It is designed to read the serial No from the Mifare MF1 S50 RFID tags and is a major component in RFID (Radio Frequency Identification Device) reader system. It can be applied in office/home security, personal identification, access control, anti-forgery, interactive toy and production control systems etc.

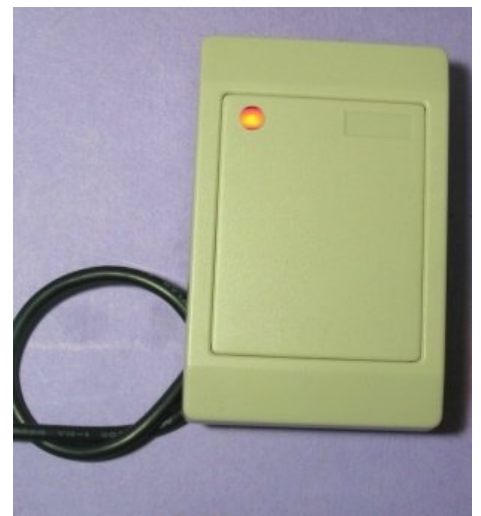
#### FEATURES

- Built-in transceiver antenna;
- Maximum effective distance up to 5 cm;
- Less than 100ms decoding time;
- Low power dissipation with single power supply;
- RS232 interface;
- Read serial No from the Mifare MF1 S50 RFID tags
- Built-in bi-color LED and buzzer;

**SIZE : 72x110x14mm**

#### INTERFACE DESCRIPTION

<b>PIN Assignment</b>	<b>RS232</b>
Red	9V To +15V DC
Black	Gnd
Green	TXD
Yellow	Ground



## RS232 Data Format (Serial ASCII)

Baud Rate: 9600, N, 8, 1

STX (02 HEX)	DATA (10 HEX)	CR	LF	ETX (03 HEX)
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The start character is factory defined as an 'STX' (02 HEX). This is followed by 10 Hex characters of data. The CR/LF characters serve to bring the received screen text back to the left hand side and on the line below after the data bytes have been sent. The 'ETX' (03 HEX) character denotes the end of the current transmission.

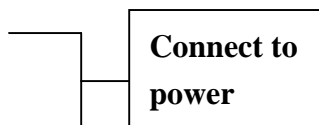
## RS232 Connection

### RFID reader wires

### Com Port (DB9) from PC

Red ----- 9V to 15V

Black ---- Ground



Green (RS232 TX)

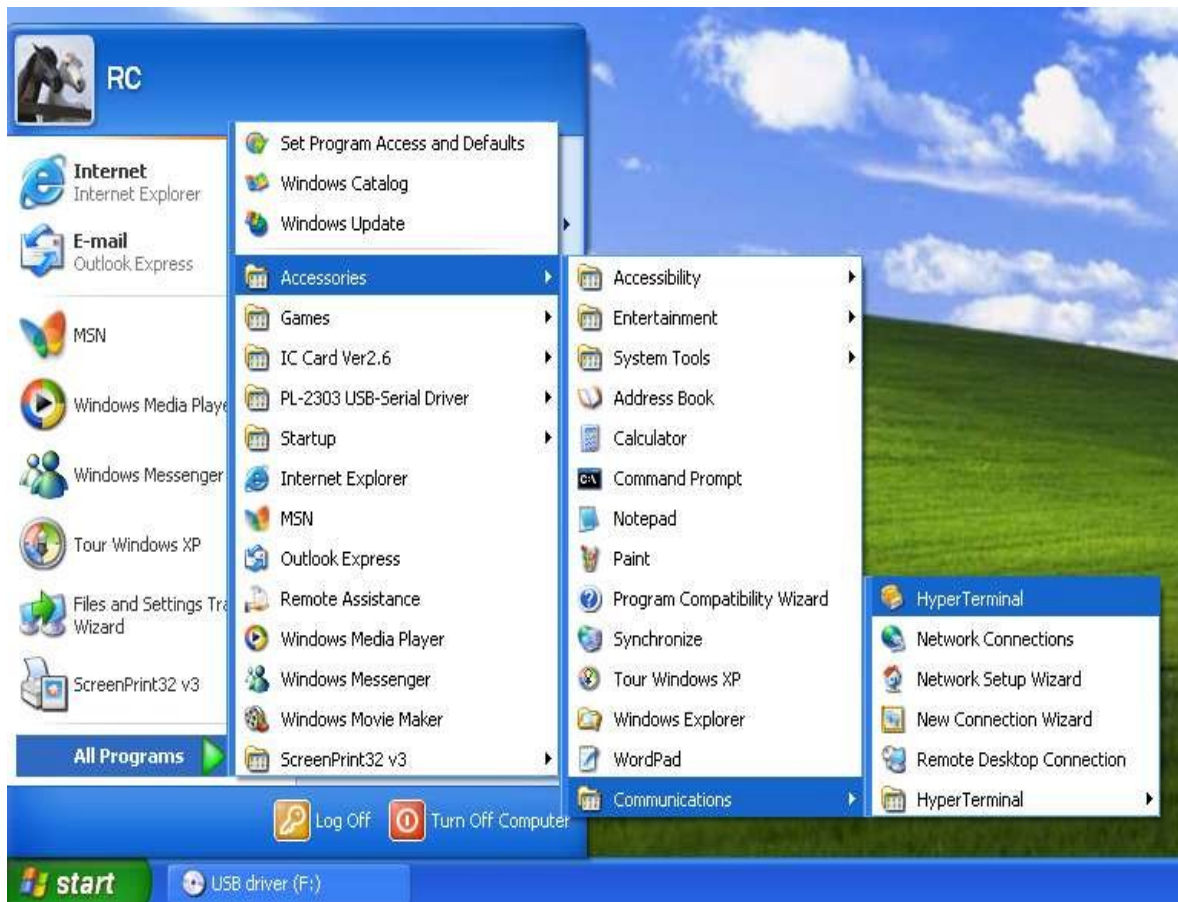
----- Pin 2 (RS232 Rx)

Yellow (Ground)

----- Pin 5 (Ground)

## Reader Testing Procedure :

### Testing Software – Windows XP – Hyper Terminal



**Start > all program > accessories > communications > hyper terminal**

**[1] connect the reader with PC' RS232 com port;**

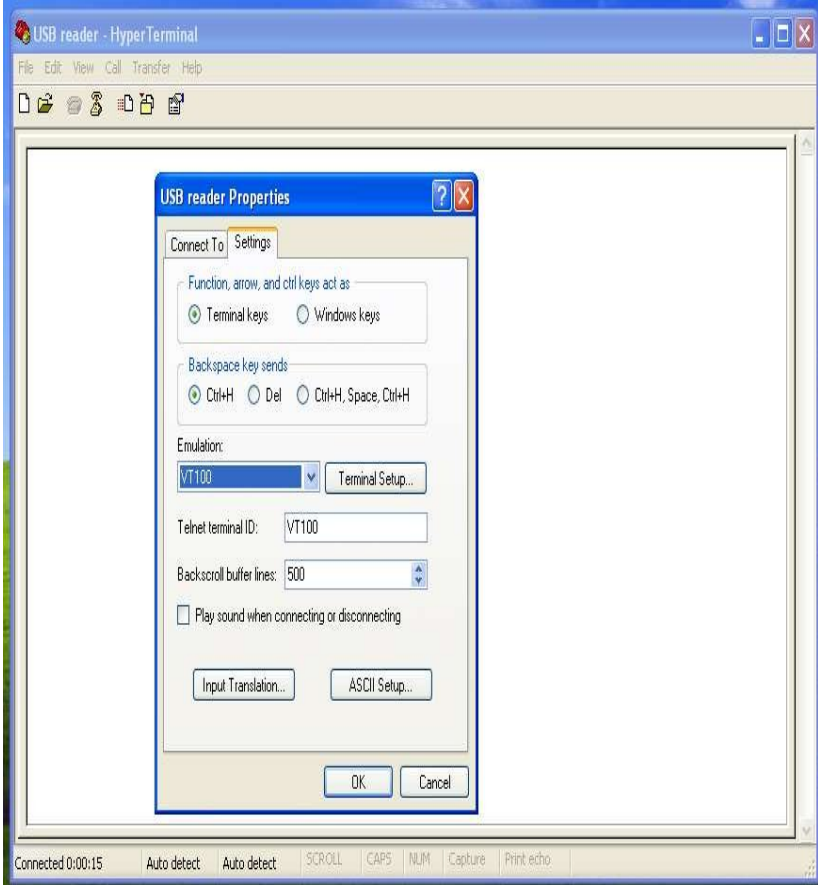
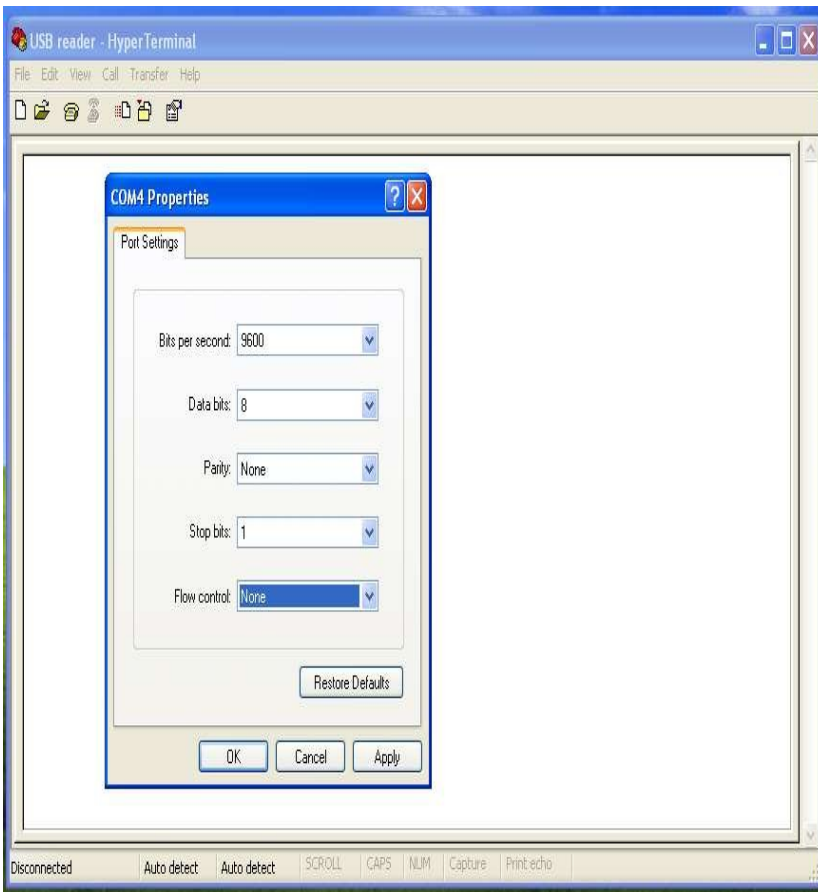
**[2] apply 9V-15V DC to the reader**

**[3] open Hyper Terminal ;**

**[4] set the following parameter :**

**Baud rate : 9600 , N, 8 , 1 / Flow control : None / Telnet Terminal : VT100**

**COM port number : select the correct "com port" which is connected with the reader**



[5] read the RFID tags and the ID will be shown on the screen as follow :

### Hyper Terminal Screen

