

RS232-MDB Coin Validator Simulator Converter Manual

(This manual for Coin validator simulator, not for cashless interface)

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Updates will not be communicated actively.

Company: Shanghai Wafer Microelectronics Co.,Ltd.

Introduction:

RS232-MDB Coin validator simulator is used to connect the PC to MDB interface of vending machine and working as a simple coin validator. And makes it easy to integrate with MDB interface vending machines by the RS232.

This simulator adapter is most useful when you want to connect your PC or com port device to exist old vending machine and it even doesn't have the cashless payment interface.

Also sometimes, so old vending machine must have a coin acceptor to work, but you want to connect a cashless payment to it. Then you can use this adapter box to simulate it.

Simulator will reply the VMC Poll command automatically, so user don't need to consider the Poll command. Any data from VMC except the poll command will be redirected to RS232 port.

Any data if you want to send the HEX data to VMC, just send to adapter box together with checksum, then the adapter box will send to VMC during the VMC poll request.

So for user only need to be familiar with simple "Add credit command", "payment return command", "change return command" and some simple necessary setup command.

For technical details and the protocol specification, please refer to <http://www.waferlife.com>

Any other questions, you can add wafer online service skype: wafer-service

MDB Adapters and interfaces description:

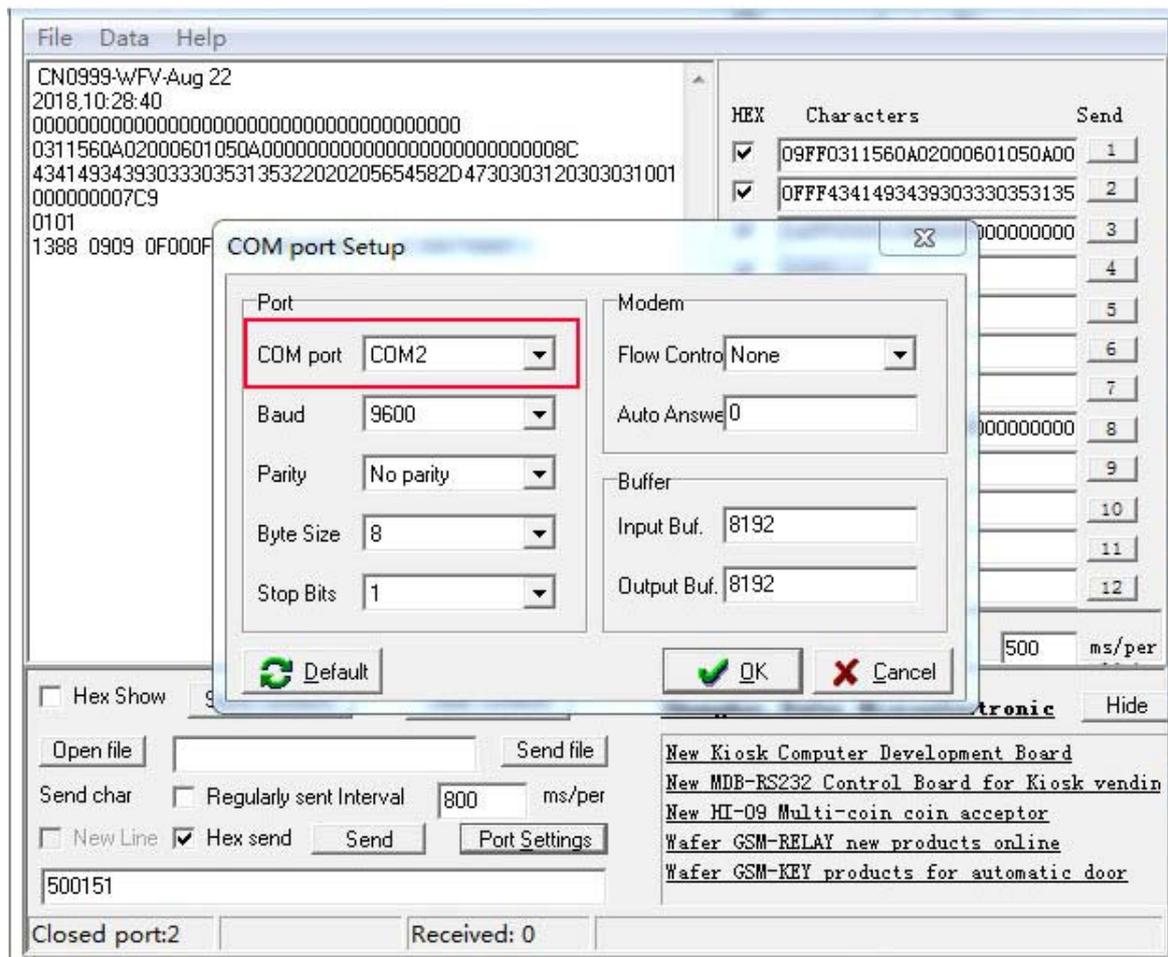


- (1) MDB connector (male or female connector) should be connected to VMC
- (2) DB9 Com port need to be connected to RS232 port of PC or other devices
- (3) Function input can be configured to work as "Credit add button"

Now we start the MDB adapter Test:

1. Know your Vending machine
 - a) Vending machine must support the MDB payment interface
 - b) User must be familiar with RS232 and know how to use the com port tools to send command data
 - c) Disconnect other MDB payment devices before test the MDB adapter box
2. Connect the Adapter box to VMC and PC
Simply plug the RS232-MDB to VMC (Vending machine controller) and the PC RS232 port.
3. Open the COM port tool (SerialTool.exe)

Firstly check in the PC device manager or make clear which is the right com port that can be used. And then Select the right Com port in the SerialTool and select the “Hex Send” as the following picture



4. Power on the VMC (RS232-MDB adapter box will be powered on at the same time through the MDB bus)
After powered on,keep to look at the RS232-MDB adapter box status LEDs, when the adapter box can be connected to the VMC,the MDB Master LED will flash some times

VMC will send the validator disabled command: `0C000000000C` (Page: 69/313)

If no change to return, then validator will send the command `0C0007000013`

If need to return the change. Then VMC will send the command data: `0F020A1B` to tell the PC what value need to be returned and wait the PC to reply the change already returned and the returned value amount.

For example, PC send the data : `0000FF00000000000000000000000000FF` to Aprove the change and VMC will be returned to main menu.

We can use a exact value returned data or bigger data to reply the VMC.

VMC send the Enable command after vending success: `0C0007000013`

9. **MDB adapter simulate MDB coin acceptor or MDB bill acceptor supported**

(This is very important when some vending machine don't support MDB cashless device interface)

Also if you still want to use your real coin acceptor, but your machine don't support cashless interface, then we provide the data insertion module. That can work together with the coin acceptor