

MDB-RS232 with POS PAX IM30 card reader



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This PAX30 device requires the following three commands to start the test:

(Below is only an example, users can make modifications according to the protocol)

1100020000002 (configuration parameters)

1101FFF0000 (set maximum and minimum prices)

17004E4543303030303030030303030202020204B52454120200005 (Read ID)

170400000020 Enable the Always idle mode (If need this working mode)

After the above three commands are sent, the device will respond and must receive the response before sending the next command

Then we send:

1401 (enable command)

And now, you can click "start" on the screen to start the Vend session

After receive the Vend start data, Then We can sends:

1300000A0001 (VMC command to card reader with Price and Selected Item number)

Then will see the price on the screen.

Follow the protocol and prompts to continue with subsequent testing

Important note for PAX Reader:

1. The PAX card reader may be remotely refreshed regularly every day, and after the refresh, the device restarts, but does not send a RESET status report to the host. Because our host may not know that the device has been rebooted, therefore, for such cases, we can send a read configuration 1100... Command, or 12 instructions to confirm that the device can reply, usually once in every 1 minutes. If the device does not reply and is not in the transaction status,VMC need to speed up the frequency of queries, and after the device restarts, VMC will receive an command reply. At this time, you can restart the configuration and enable.
2. For any MDB card reader, if the function does not exist, and the enable command cannot be sent casually, it is likely that the device cannot respond and stops working. For example, the ALWAYS IDLE function enable command 17040000020, if the device itself does not support this function, this command cannot respond, and even the device may stop working.

Important Note:

Some devices, after PC send a command,for example, a query the configuration command, cashless device will reply immediatly, but some devices just reply to an ACK first, and then report the configuration data with the next POLL command.

The PC sends a command to query the configuration of the cashless device , and the device will reply

PC Send: 110003000000

Cashless Device type1: reply data: 3031203033203131203536203031203032203539203044204434200D0A

Device type2 PC Send: 110003000000

Cashless Device type2: reply data: 3030200D0A (Reply with ACK(ASCII "00") firstly)

Cashless Device type2: report data: 31302030312030332031342035382030312030322042342030390D0A

The screenshot shows the 'Shanghai Wafer Microelectronics Co.,Ltd - Com Test Tools' interface. The main window is divided into several sections:

- File Device Help**: A menu bar at the top.
- HEX**: A list of commands with checkboxes and a 'Send' column. The commands are:
 - Command to set the cashless device (1)
 - 110003000002 (2)
 - 1101FFFF0000 (3)
 - 170400000020 (4)
 - 17004E4543303030303030303030302 (5)
 - 1401 (6)
 - Start the vend session (price = 5) (7)
 - 130001F40001 (8)
 - After received 0501F4FA (9)
 - 13020001 (10)
 - 1304 (11)
 - (12)
 - (13)
- Characters**: A text area for entering characters.
- Send**: A column of buttons for sending each command.
- Ascii data received from card reader**: A text area on the left showing received data. A red arrow points from the text 'Ascii data received from card reader' to the data '10 07'. Another red arrow points from the text 'PC command Hex data' to the command '110003000002' in the HEX list.
- Hex Show**: A checkbox and buttons for 'Save contents' and 'Clear contents'.
- Open file**: A text input field and a 'Send file' button.
- Send char**: A checkbox for 'Regularly sent Interval' (500 ms/per) and a 'Send' button.
- New Line**: A checkbox for 'Hex send' and a 'Close port' button.
- Status**: A text area at the bottom showing '13 04', 'Opened port: COM9', 'Sent: 471', and 'Received: 487'.
- Shanghai Wafer Microelectrc**: A sidebar with a 'Hide' button and a list of links for products and questions.

MDB-RS232 测试 PAX30 刷卡器注意事项

这个设备，在测试的时候需要使用以下三条指令：

（以下仅作参考，用户根据协议可以做修改）

11002000002 （配置参数）

1101FFFF0000 （设置最大最小价格）

17004E454330303030303030303030303020202020204B5245412020200005 （读取 ID）

170400000020 （如果需要使能 Always Idle 工作模式就需要发这个指令去使能）

以上三条指令发送后，设备都会做出回复，必须要收到回复后发送下一个指令

然后发送：

1401 （使能指令）

这个时候，就可以屏幕上点“start”去开始测试交易了。

然后串口发送：

1300000A0001 就会看到屏幕上有价格了，按照协议和提示继续后续的测试就可以了

针对 PAX 刷卡器的重要提示：

- 1、PAX 刷卡器可能每天会做定时刷新，而且刷新后，设备重启，但是并不会向主机发送复位的状态报告。因此我们主机可能无法知道设备已经重启，针对这样情况，我们可以发送读取配置 1100.....指令，或者 12 指令去确认设备能够回复，一般 1 分一次即可。如果设备没有回复，而且并不是处于交易阶段，则需要加快查询频率，设备重新启动后，会收到指令回复。这个时候可以重新开始配置和使能即可。
- 2、对于任何 MDB 刷卡器，如果不存在的功能，并不能随便发送使能指令，很可能设备无法响应而停止工作。比如 ALWAYS IDLE 功能使能指令 170400000020，如果设备本身不存在这个功能，这个指令无法响应，甚至设备可能停止工作。

重要提示：

有一些设备，在 PC 发送一个指令过去，比如查询配置指令，非现金设备可能会马上回复配置数据。但是又的设备会先回复一个确认 ACK"00"，然后在下一个指令的时候才会报告配置数。

比如 PC 发送一个查询配置参数的 1100..... 指令

PC Send: 110003000000

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Device type2 PC Send: 110003000000

Cashless Device type2: reply data: 3030200D0A (Reply with ACK(ASCII "00") firstly)

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注意：在第二个指令回复配置参数的时候，就相当于设备报告数据了，前面就要带有设备代码 10 了

Customer service:

Both pre-sales and after-sales can receive help and advice through our online skype technical support.

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