

# **DiViS-DVR**

**(Digital Video Security System)  
(Digital Video Recorder)**

## **POS Cable Installation**

**CHANCE-i USA Corp.**

[www.divisdvr.com](http://www.divisdvr.com)

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There are 3 steps in the integrating DVR with POS.

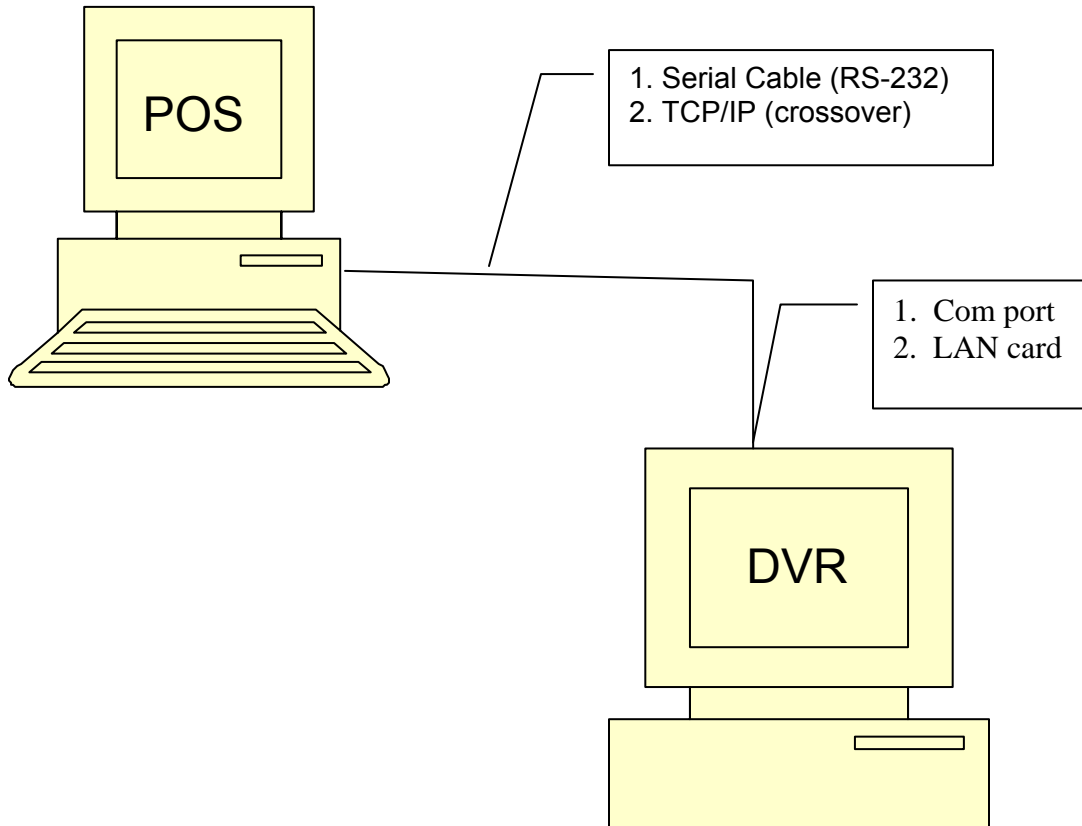
1. Make connection between POS and DVR.
2. Capture data from POS with Windows hyper terminal.
3. Make protocol with “Device Setup”.

POS cable installation describes the cable connection between POS and DVR in various setup.

For “step 3” making protocol, please refer to “Device Setup Manual”.

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## 1. POS direct connection



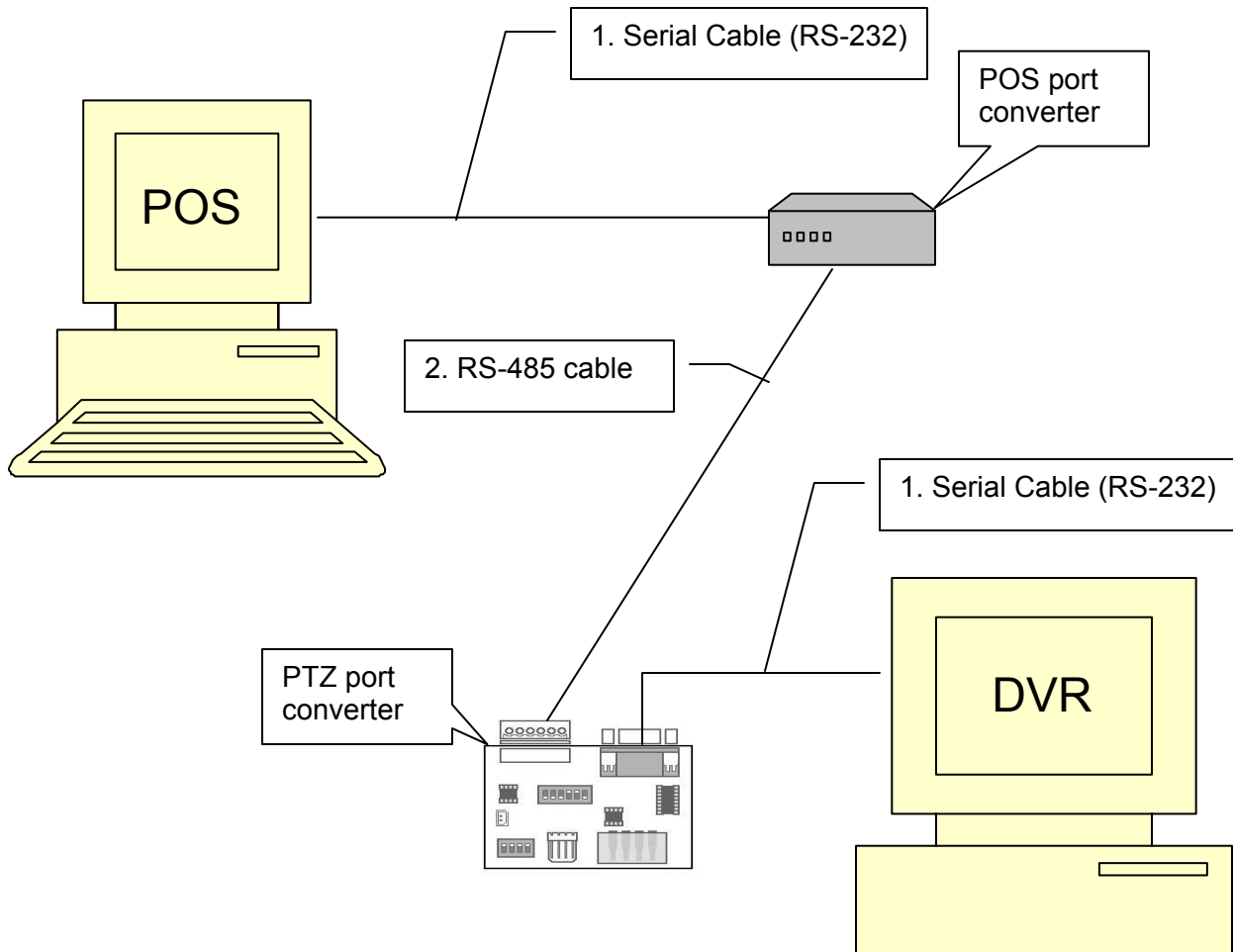
### 1. **Serial cable connection;**

- Reach of serial cable (RS-232) is within 50ft.
- If there are multiple POS, expand the serial ports by adding serial expansion card in the DVR.

### 2. **TCP/IP connection;**

- In case of TCP/IP connection the data, which transferred from POS to DVR, must be Text data.
- Please refer to POS manufacturer for outgoing port number and IP address of POS.
- If there are multiple POS, use hub or switch and regular cat-5 network cable instead of crossover.

## 2. Single POS connection



*\* This configuration only works with single POS device.*

If POS is located farther than 50ft from DVR, POS port converter is needed since serial cable(RS-232) is limited by its short distance range.

The POS port converter converts RS-232 to RS-485, which has greater range up to 4000ft. However, computers only accept serial cable (RS-232) connections; RS-485 has to be converted back to RS-232.



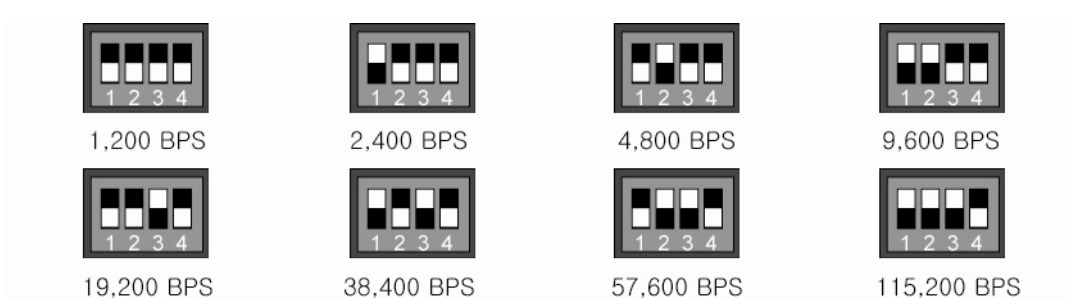
POS —(serial port)→ POS port converter —(RS-485)→  
PTZ port converter —(serial port)→ System

From POS, connect serial cable to the connector in POS port converter shown in following picture.



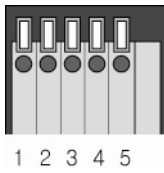
Use 5v, 1~2amp, 5.5mm barrel plug power supply for POS port converter.

Notice that next to the serial connector there is “Baud rate” dip switch. Followings are different switch setup for different data transfer rate.

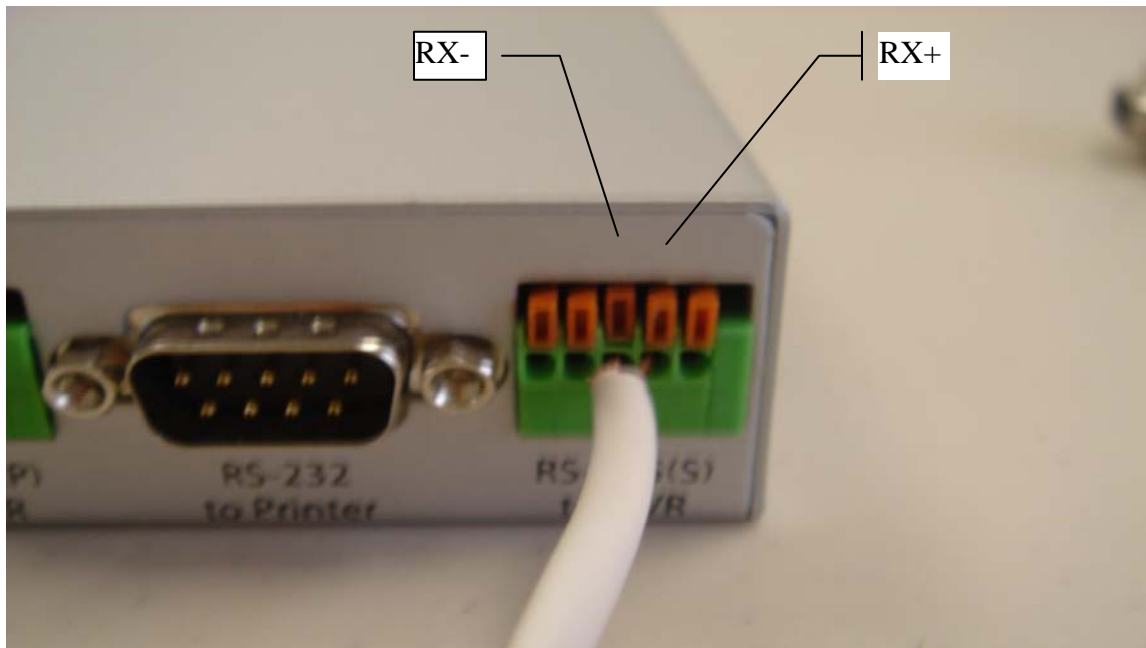


Change the Baud rate according to according to the POS.

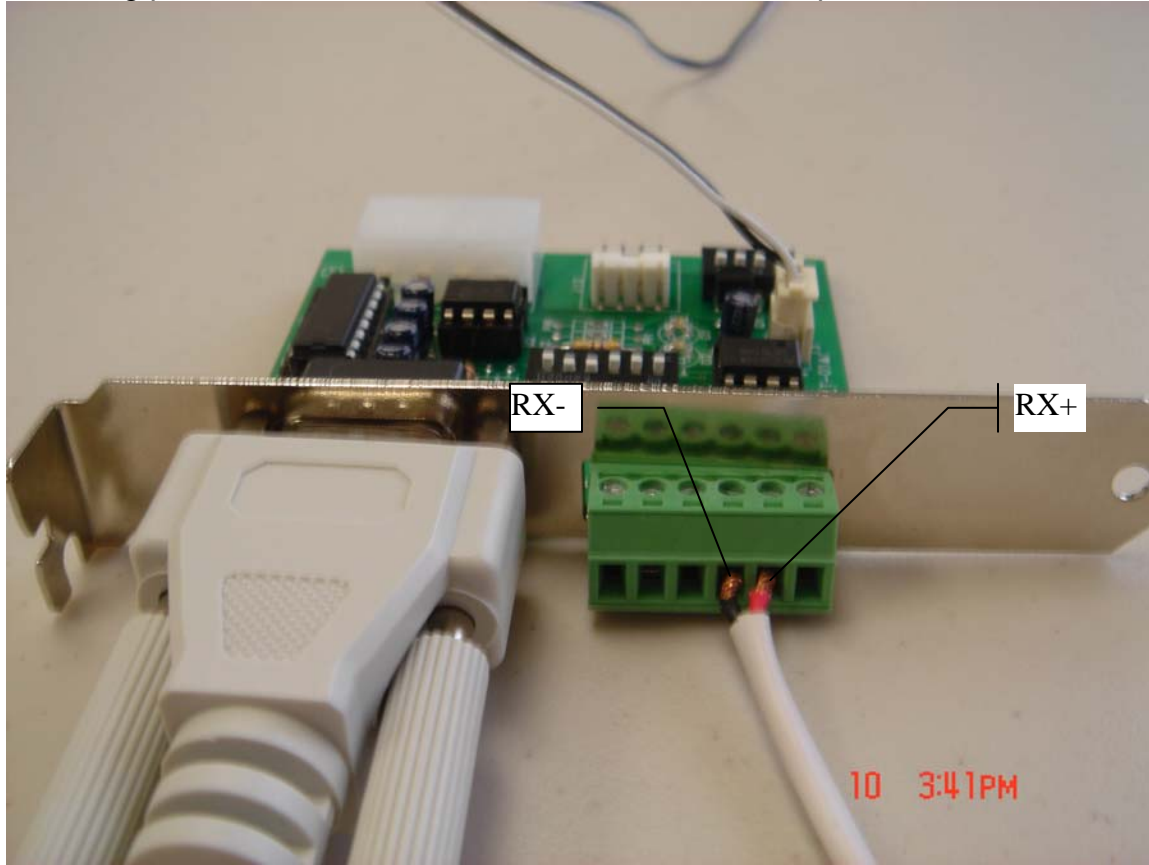
Following picture shows connection of RS-485 from POS port converter.



- (1): TX-
- (2): TX+
- (3): RX-
- (4): RX+
- (5): GND



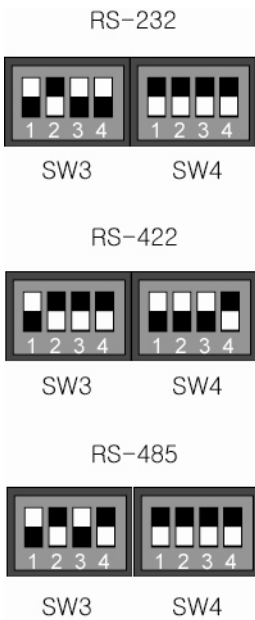
Following picture shows where the connection from POS port converter connects.



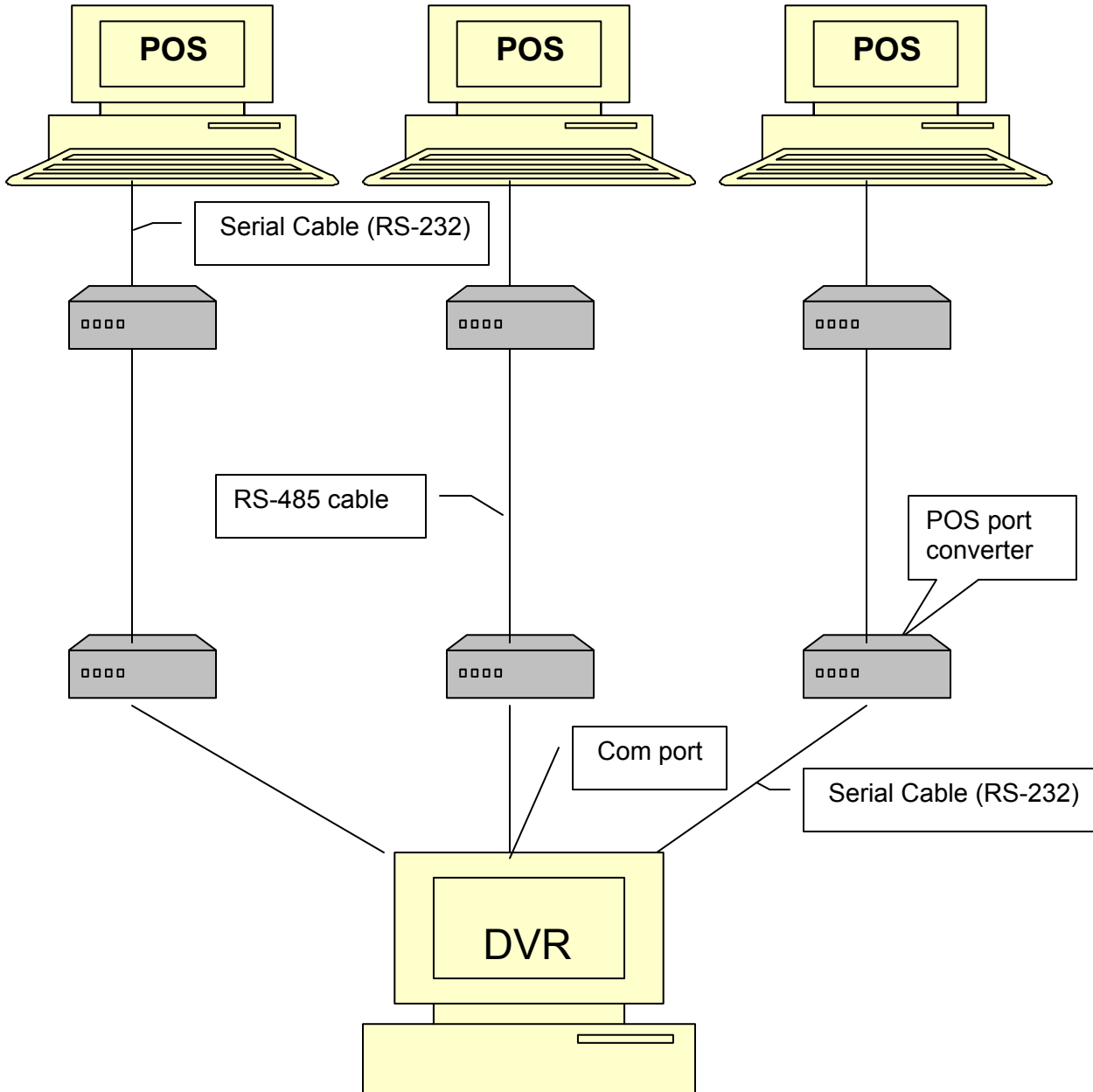
The serial cable here connects to computer's com1 serial port.



Since we have used the RS-485 from POS port converter to PTZ port converter, dip switch must be changed to above picture.

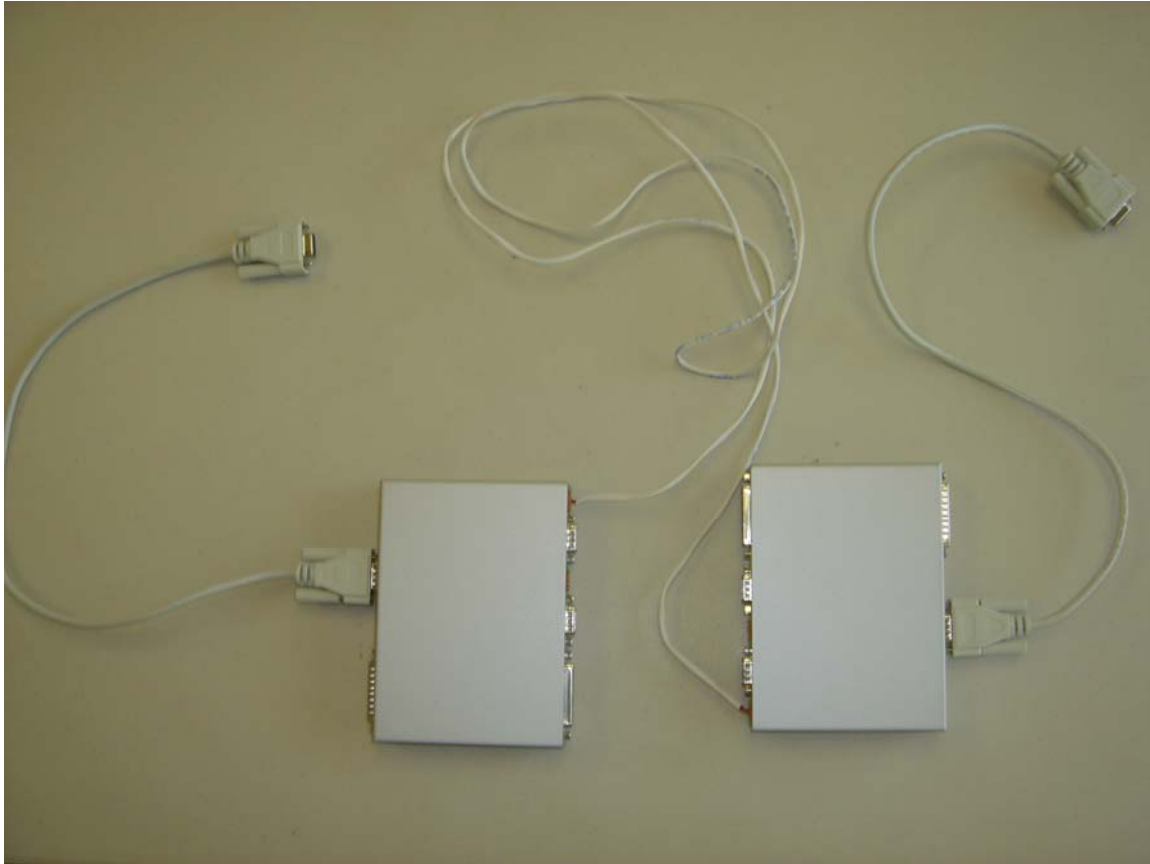


### 3. Multiple POS connection



*\*If needed, expand the serial ports by adding serial expansion card in the DVR.*

Following picture is the overall connection map.



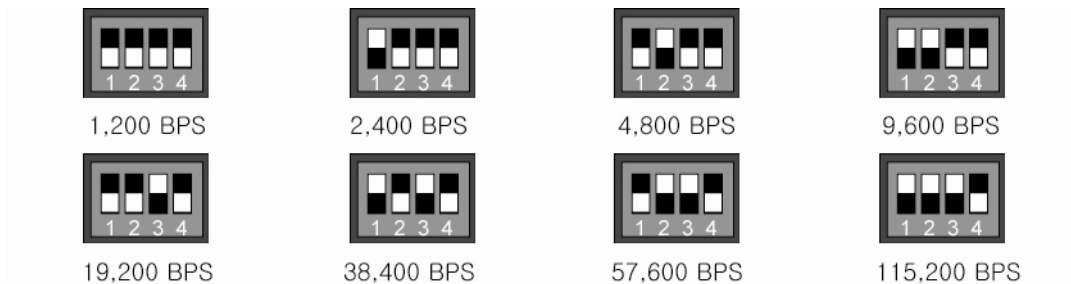
POS —(serial port)→ POS port converter —(RS-485)→  
POS port converter —(serial port)→ System

From POS, connect serial cable to the connector in POS port converter shown in following picture.



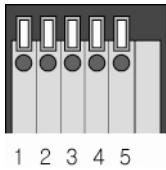
Use 5v, 1~2amp, 5.5mm barrel plug power supply for POS port converter.

Notice that next to the serial connector there is “Baud rate” dip switch.  
Followings are different switch setup for different data transfer rate.

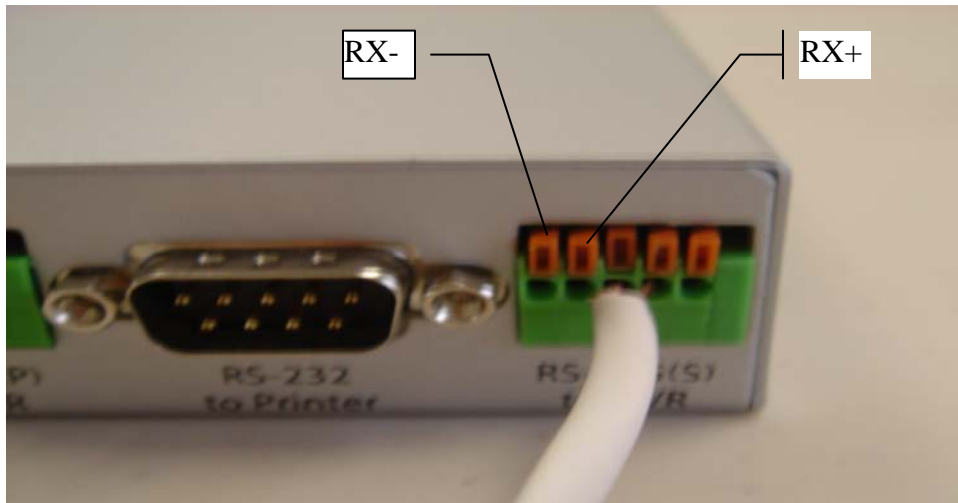


Change the Baud rate according to according to your POS.

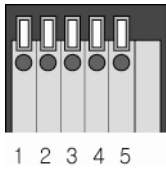
Following picture shows connection of RS-485 from first POS port converter.



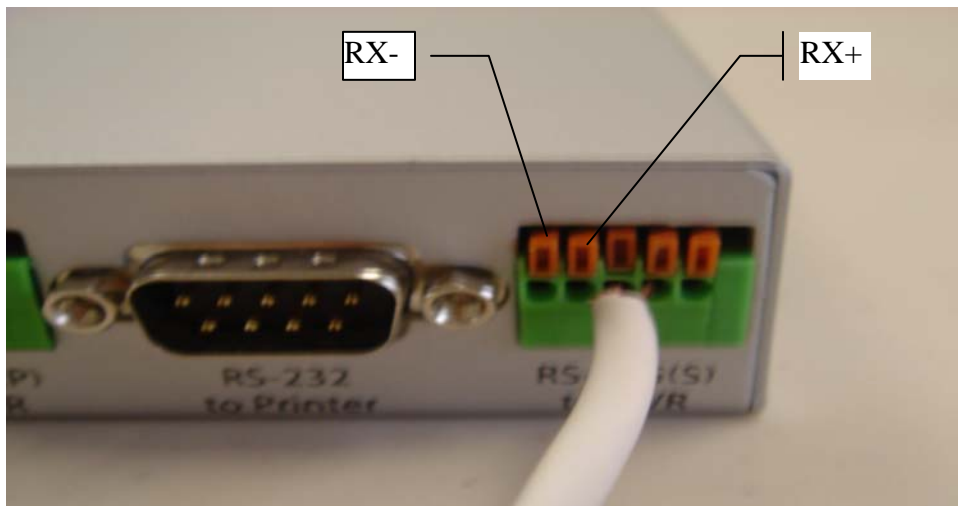
- (1): TX-
- (2): TX+
- (3): RX-
- (4): RX+
- (5): GND



Following picture shows connection of RS-485 to second POS port converter.



- (1): TX-
- (2): TX+
- (3): RX-
- (4): RX+
- (5): GND





Since we have used the RS-485 between two POS port converters, dip switch must be changed to above picture.

