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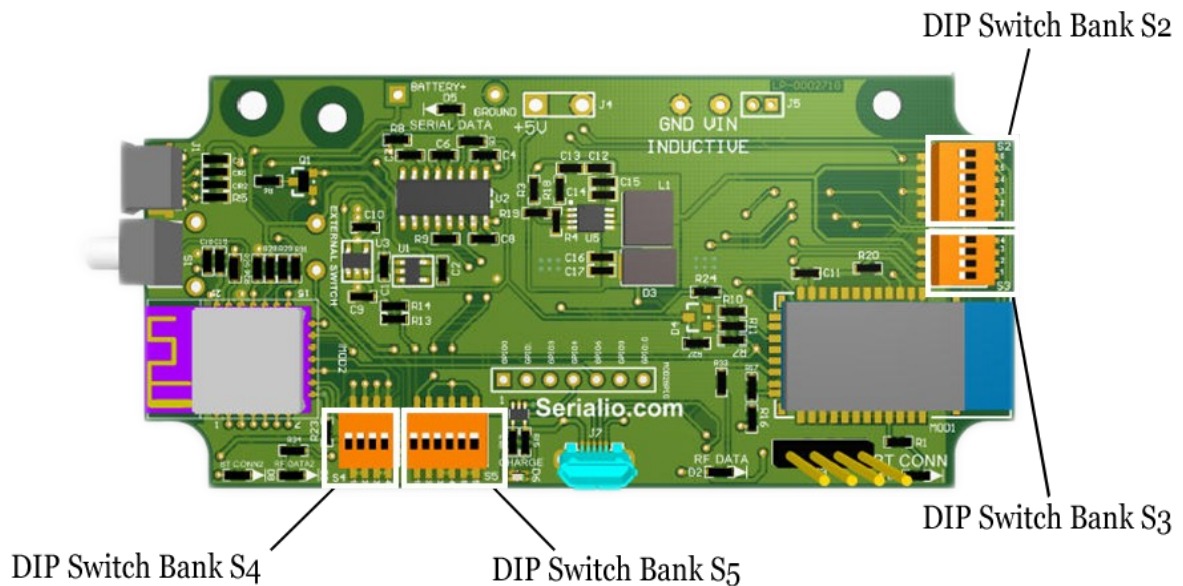
# 1. idChamp configuration for reading iClass card numbers

To setup *idChamp HS3 HSE* reader for reading card number from the HID Corporate 1000 (iClass) cards follow these instructions.

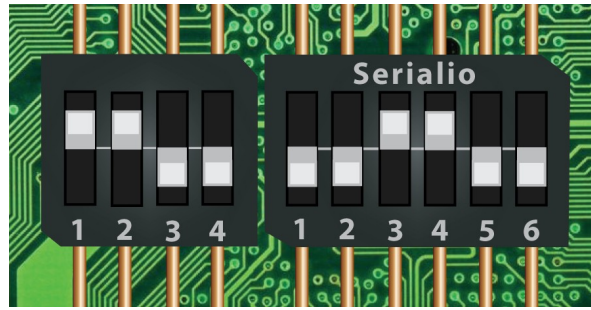
1. Switch reader to Bluetooth interface to SPP mode
2. Configure reader using serial terminal
3. Switch reader Bluetooth interface back to HID Keyboard mode

## 1.1. Switching to SPP mode

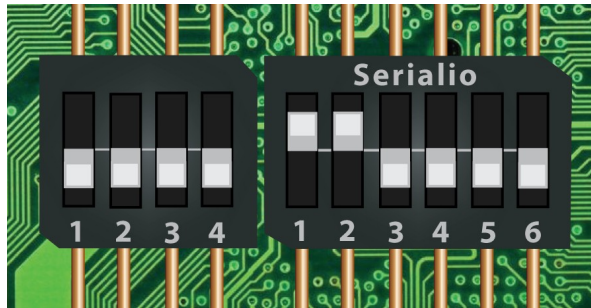
Open the **idChamp RS3 HSE Reader** and make sure that the **DIP switches** match the pictures below.



*Illustration 1: Reader bottom board layout*



*Illustration 2: **SPP mode:** Positions for banks **S2** and **S3** (See diagram above).*

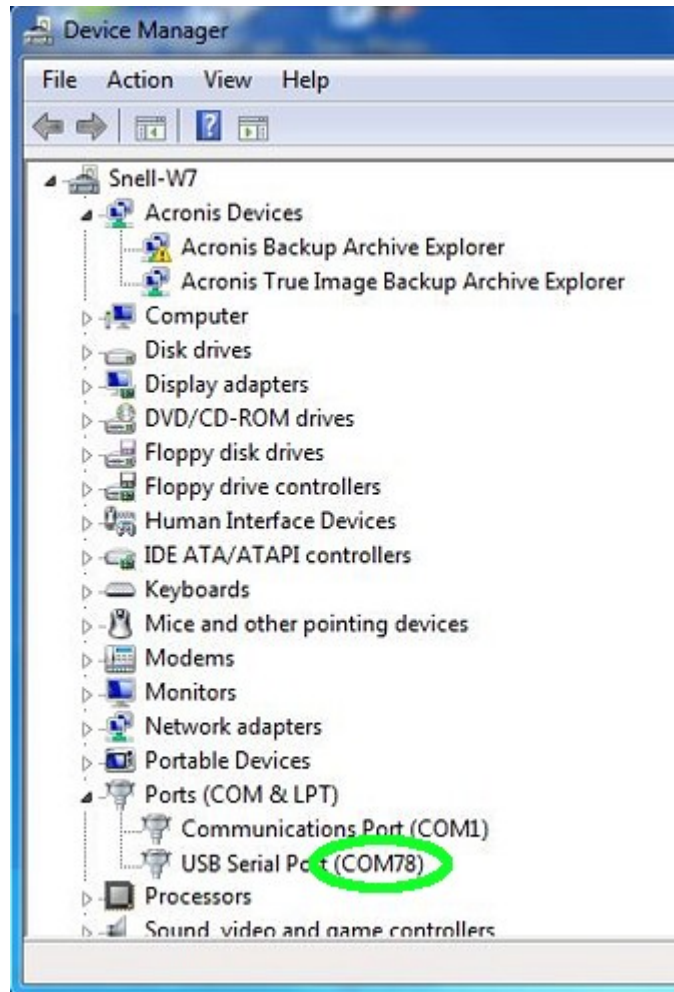


*Illustration 3: **SPP mode:** Positions for banks **S4** and **S5***

**Note:** You will need to remove the idChamp RS3 HSE Reader from the case to access these banks - See [diagram above](#)).

## 1.2. Configure reader

- **Power on the reader** (do this using USB cable). Pair the reader with the computer, as usually do with Bluetooth devices<sup>1</sup>.
- After connecting *idChampRS3* reader to computer you have to **identify reader serial port** name. To do this open **Device Manager** and under **Ports** section search for COM port identifier. You will use this identifier in connecting terminal application to the reader.

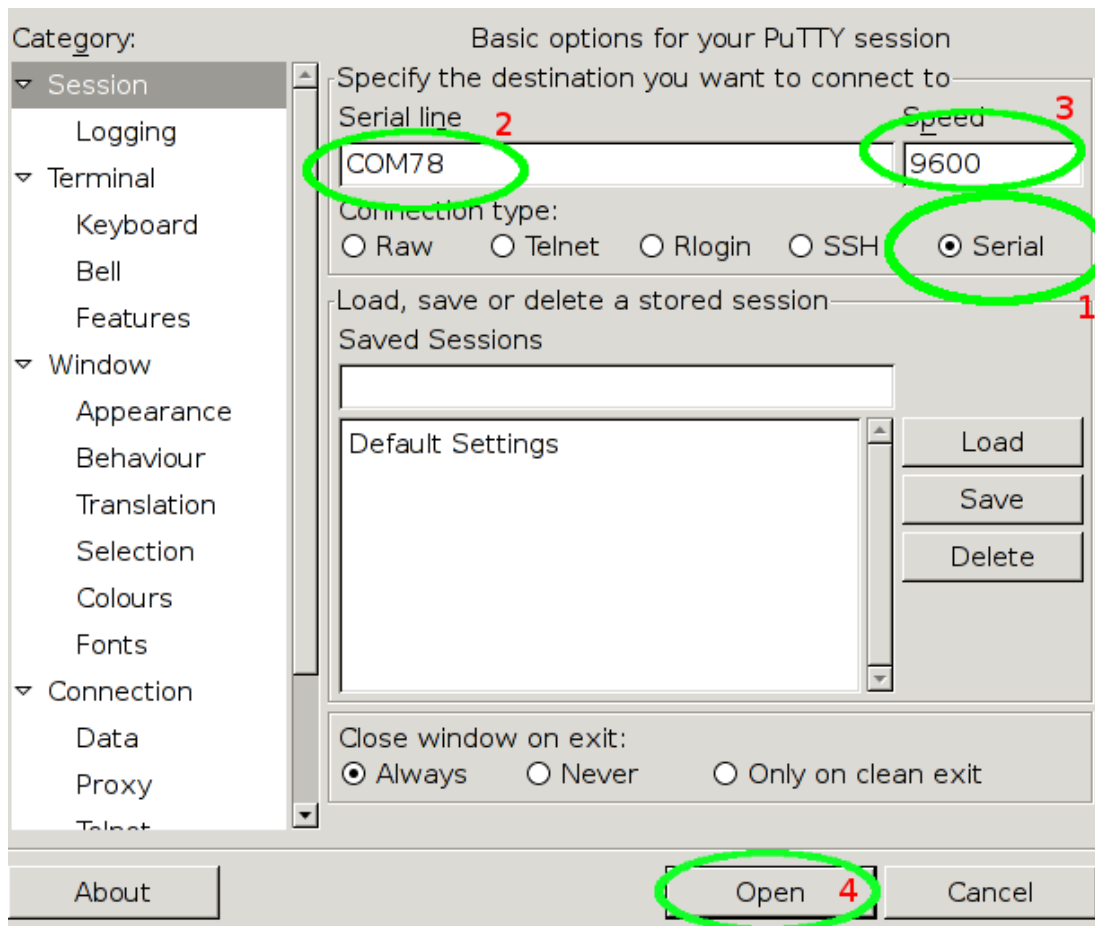


*Illustration 4: idChamp reader in this case have COM identifier COM78*

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<sup>1</sup> Manual on how to connect Bluetooth device on computer with Windows 10 operating system can be found here <http://windows.microsoft.com/en-us/windows-10/getstarted-connect-to-bluetooth-devices>

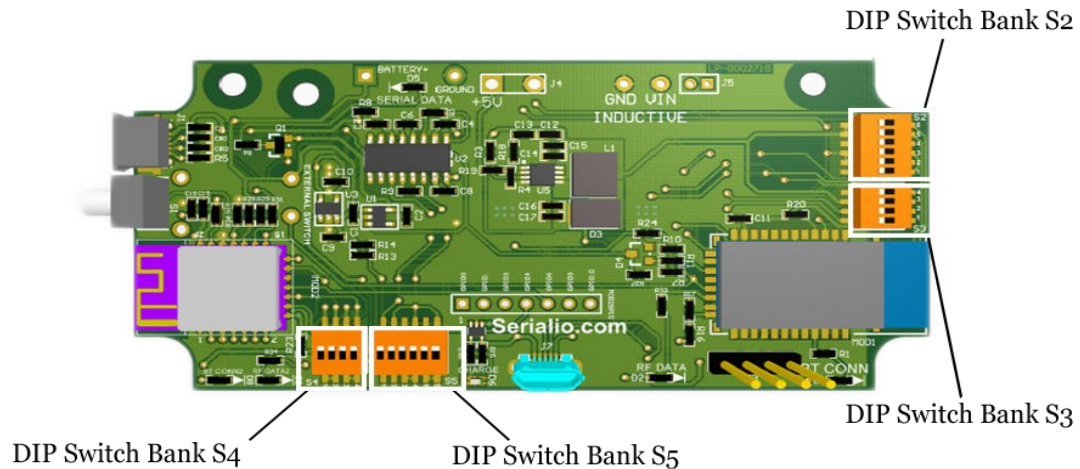
- Now download **PuTTY** serial client from <http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe> then open it and fill the fields as shown on [image below](#) and open terminal.
- NOTE:** Use serial line identifier that you found in [your device manager](#) instead of the one that is displayed here as an example.
- After opening a terminal you have to **copy the listing shown in the [Appendix](#) of this document into terminal window**.
  - Close terminal and power off the reader.



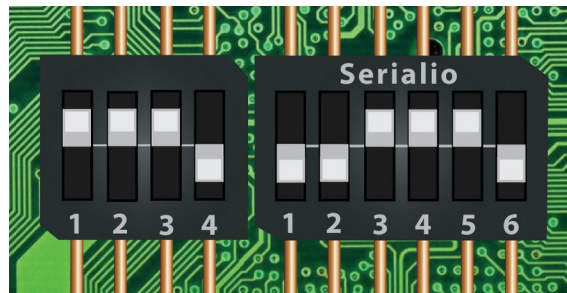
*Illustration 5: NOTE: Use serial line identifier that you found in your device manager instead of the one that is displayed here as an example.*

## 1.3. Switching reader back to HID Keyboard mode

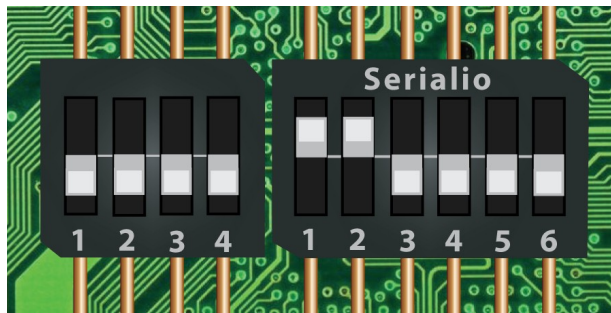
After configuring reader you have to switch device Bluetooth interface back to HID keyboard mode. To do this put DIP switches into position as shown on images bellow.



*Illustration 6: Reader bottom board layout*



*Illustration 7: **HID mode:** Postions for banks S2 and S3 (See diagram above).*



*Illustration 8: **HID mode:** Positions for banks S4 and S5*

## 2. Appendix: Configuration Listing

```
rfid:cfg=1
rfid:cfg.card.hipri=True
rfid:cfg.card.type=0xEF01
rfid:chr.1='\x00'
rfid:chr.2='\x00'
rfid:chr.3='\x00'
rfid:chr.count.lead=0
rfid:chr.count.trail=0
rfid:chr.eol='\x0D'
rfid:chr.fac=':'
rfid:chr.gone.1='\x00'
rfid:chr.gone.2='\x00'
rfid:cmd.echo=True
rfid:cmd.prompt=True
rfid:dev.luid=0x0000
rfid:disp.64bit=True
rfid:disp.fac.64bit=False
rfid:disp.fac.digits=0
rfid:disp.fac.hex=False
rfid:disp.fac.send=False
rfid:disp.fac.strip=False
rfid:disp.hex.lower=False
rfid:disp.id.digits=0
rfid:disp.id.hex=False
rfid:op.beep=True
rfid:op.cont=False
rfid:op.sdk=False
rfid:out.led=255
rfid:time.hold=20
rfid:wieg.id.bits=16
rfid:wieg.inv.bits=True
rfid:wieg.qual=False
rfid:wieg.qual.bits=93
rfid:wieg.rev.bits=False
rfid:wieg.rev.bytes=False
rfid:wieg.strip.lead.bits=0
rfid:wieg.strip.trail.bits=0
rfid:cfg.write
rfid:cfg=2
rfid:cfg.card.hipri=False
rfid:cfg.card.type=0x0000
rfid:chr.1='\x00'
rfid:chr.2='\x00'
rfid:chr.3='\x00'
rfid:chr.count.lead=0
rfid:chr.count.trail=0
rfid:chr.eol='\x8A'
rfid:chr.fac='\x00'
rfid:chr.gone.1='\x00'
rfid:chr.gone.2='\x00'
rfid:cmd.echo=True
rfid:cmd.prompt=True
rfid:dev.luid=0x0000
rfid:disp.64bit=False
rfid:disp.fac.64bit=False
rfid:disp.fac.digits=0
rfid:disp.fac.hex=False
rfid:disp.fac.send=False
rfid:disp.fac.strip=False
rfid:disp.hex.lower=False
rfid:disp.id.digits=0
rfid:disp.id.hex=False
rfid:op.beep=False
rfid:op.cont=False
rfid:op.sdk=False
rfid:out.led=3
rfid:time.hold=20
rfid:wieg.id.bits=0
rfid:wieg.inv.bits=False
rfid:wieg.qual=False
rfid:wieg.qual.bits=0
rfid:wieg.rev.bits=False
rfid:wieg.rev.bytes=False
rfid:wieg.strip.lead.bits=0
rfid:wieg.strip.trail.bits=0
rfid:cfg.write
```