



SK5221 HID over I2C Keyboard Controller Test Setup Procedure

Associated Part Family: SK5221

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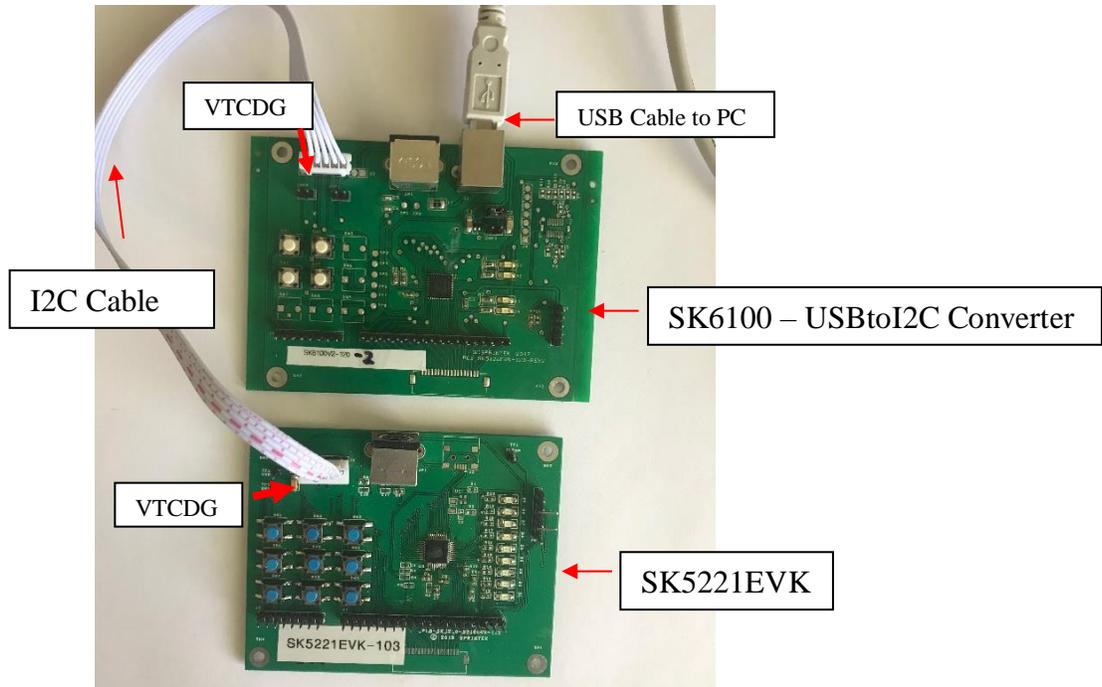
1 Overview

This document is to describe the test setup of SK5221 assembly using Sprintek SK6100 USBtoI2C Converter board and Sprintek SerialTerminal Software Tool.

2 Hardware Connection

SK6100 USBtoI2C Converter Board is used to convert I2C reports to USB serial virtual comport data stream. A 5-pin connection can be wired to the UTB (under test board). As the label shows, the 5 pins are laid out as following.
V – VCC, T – nINT, C – SCL, D – SDA, G – GND

Step 1: Connect converter board to the UTB via 5-pin I2C cable.

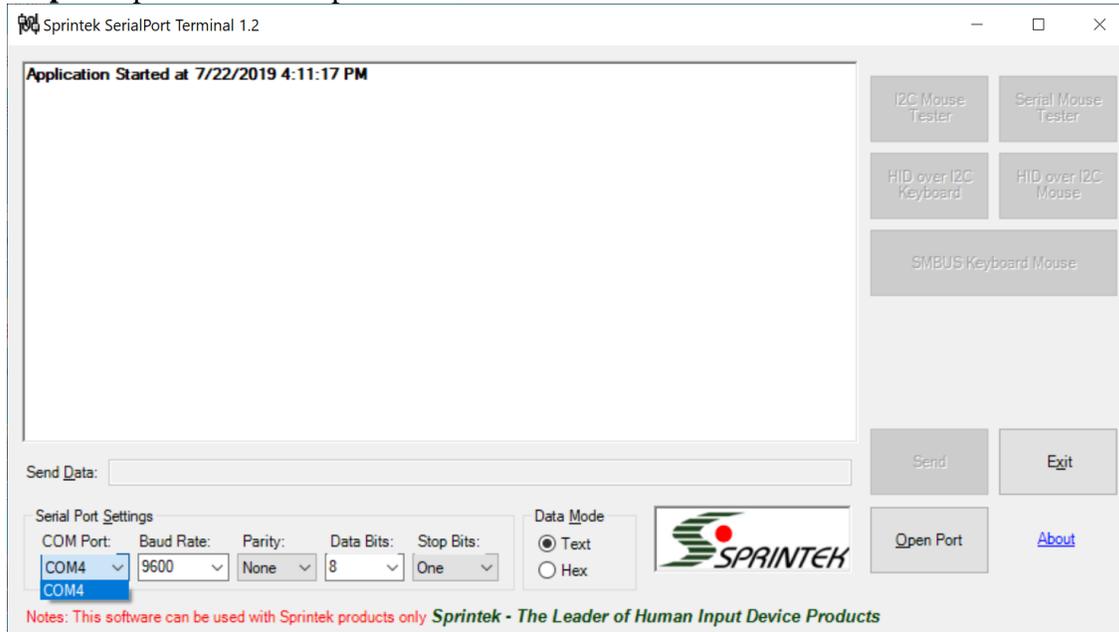


Step 2: Connect the SK6100 USBtoI2C Converter Board to PC's USB port

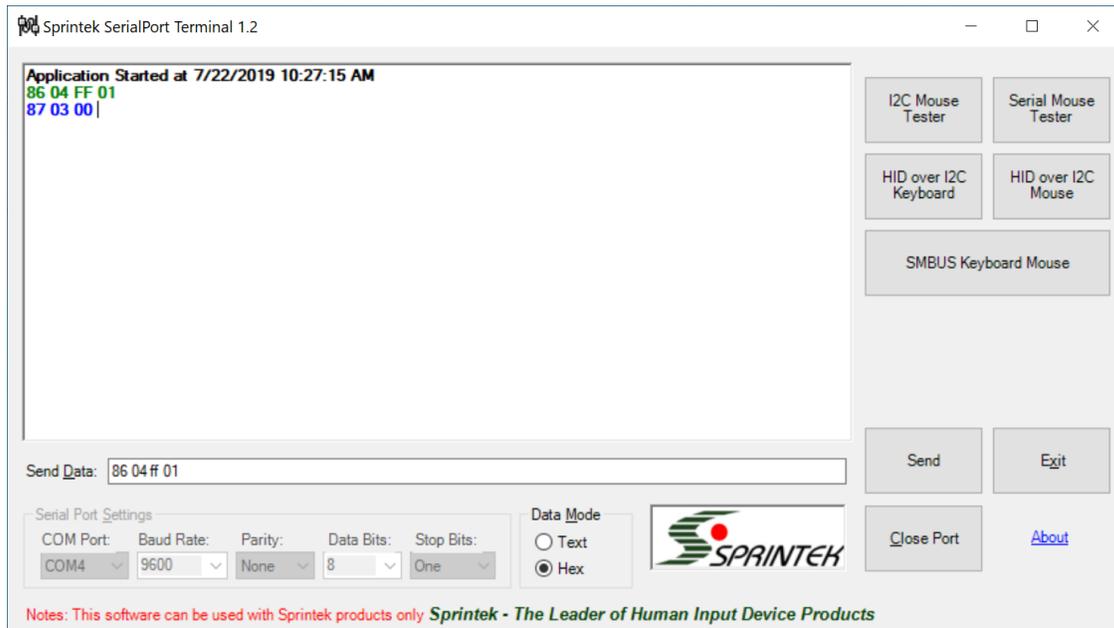
3 Software Setup

Step 1: Run Sprintek SerialTerminal Software.

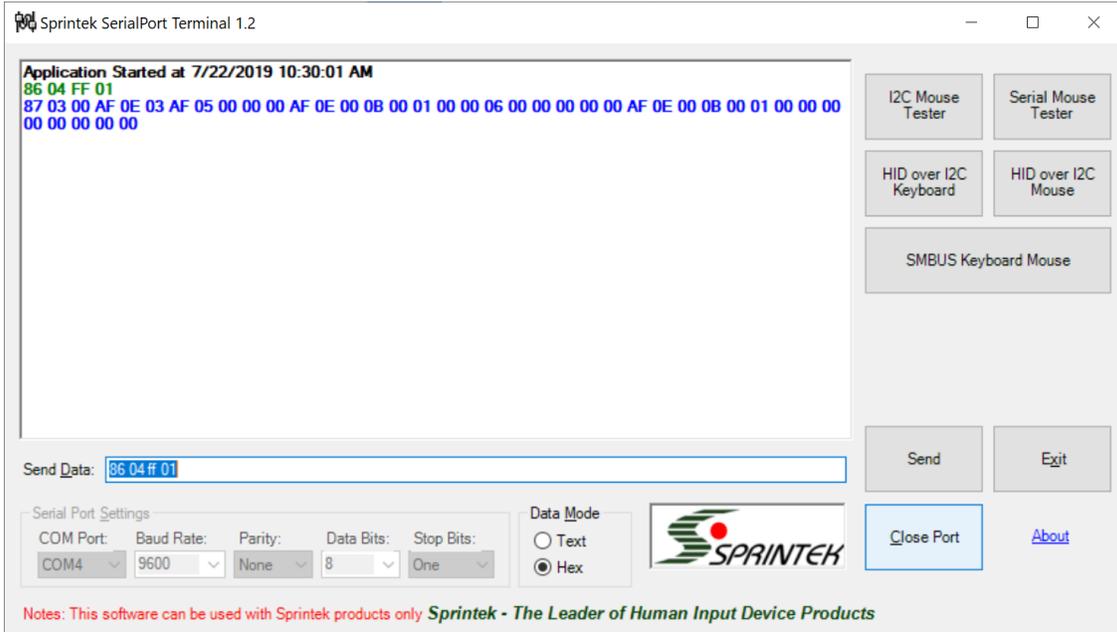
Step 2: Open virtual comport.



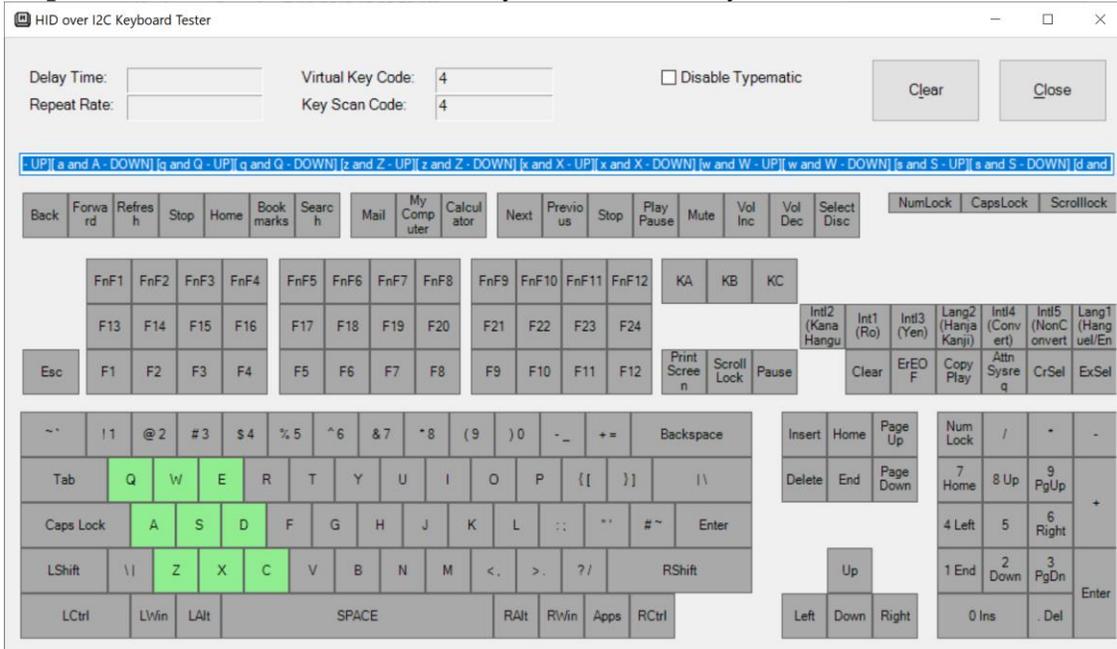
Step 3: Make sure Hex mode is selected under “Data Mode” and click “Open Port.” Send “86 04 ff 01” to initialize the SK6100.

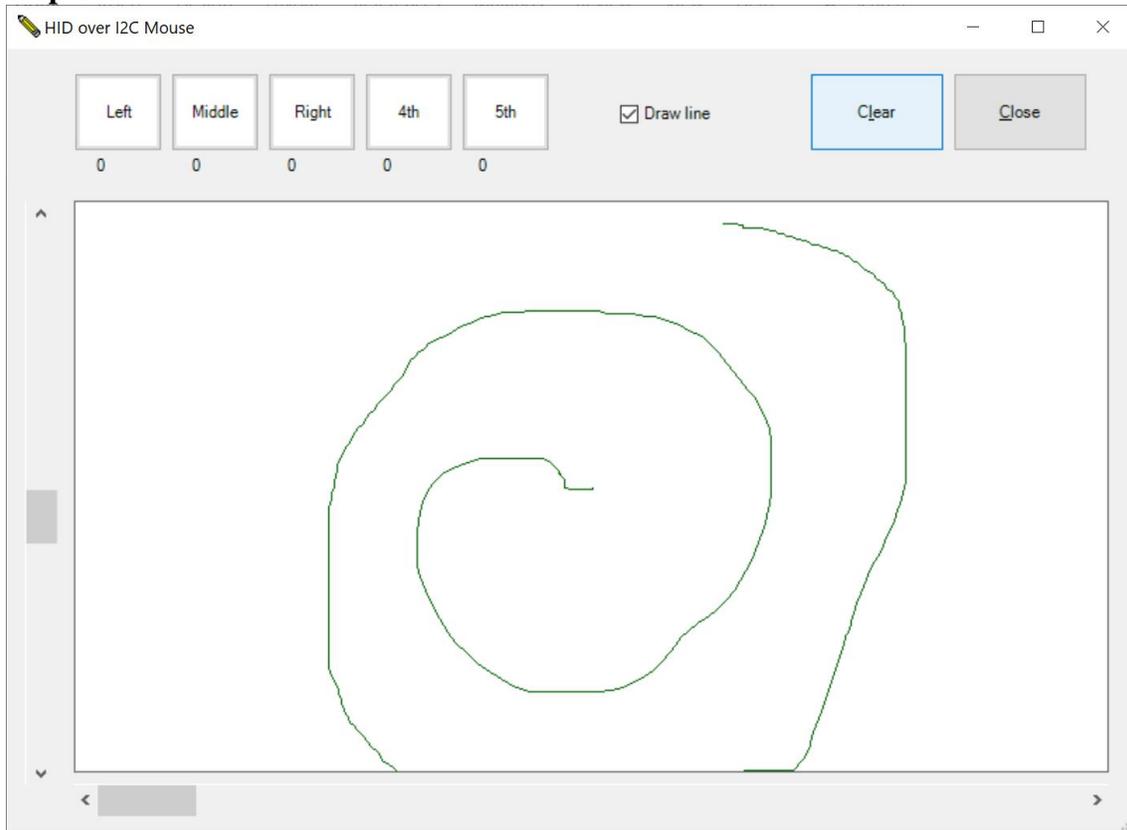


Step 4: Press a key and receive key events to verify the connection
Connect UTB of SK5221 to the converter board.



Step 5: Click button “HID over I2C keyboard” to test keyboard function



Step 6: Click button “HID over I2C Mouse” to test mouse function

4 History

Version	Date	Description
V1.00	2019-07-23	Initial release