SK5221 HID over I2C Keyboard Controller Test Setup

Procedure

Associated Part Family: SK5221

Content

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

![HID over I2C Mouse interface]

4 History

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<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
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<tbody>
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<td>2019-07-23</td>
<td>Initial release</td>
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