Interface Converters

Overview

Interface converters provide a means of communication from the main computer to peripheral microcontrollers. Interface converters are responsible for translating USB communications into UART, SPI, and any other serial communication protocol required.

Serial Numbers

All Interface converters are custom configured with a unique serial number. The serial number table is defined below.

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-bno</td>
<td>Bno055 Sensor</td>
</tr>
<tr>
<td>2017-led</td>
<td>LED Controller</td>
</tr>
<tr>
<td>2017-depth</td>
<td>Depth Sensor Controller</td>
</tr>
<tr>
<td>2017-bno-2</td>
<td>Bno055 Sensor</td>
</tr>
<tr>
<td>2017-adapter-1</td>
<td>Generic interface converter</td>
</tr>
<tr>
<td>2017-adapter-2</td>
<td>Generic interface converter</td>
</tr>
</tbody>
</table>

Resources

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT232H</td>
<td>IC for converting USB to multiple different interfaces.</td>
<td>Datasheet</td>
</tr>
</tbody>
</table>

From: https://robosub.eecs.wsu.edu/wiki/ - Palouse RoboSub Technical Documentation

Permanent link: https://robosub.eecs.wsu.edu/wiki/ee/interface-converters/start

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