

# Interface Converters

**Project Lead:** Ryan Summers **Release Status:** Pending

## 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.

## Timeline

- Hardware

1. ~~Creation of Schematic (October 9th)~~
2. ~~Footprint Association and Part Selection (October 15th)~~
3. ~~Schematic and Component Review (October 20th)~~
4. ~~PCB Routed (November 10th)~~
5. ~~Routing Review (November 17th)~~
6. ~~Order PCB (November 21st)~~
7. ~~Populate and Verify Board (January 8th)~~

## Design

The interface converter will allow for two different means of connecting to it: either through a female mezzanine connector or alternatively through a female connector to a cable harness as specified by the harnessing project.

## Resources

Part	Description	Datasheet
FT232H	IC for converting USB to multiple different interfaces.	<a href="#">Datasheet</a>
SN6505A	IC for magnetically isolating power supplies.	<a href="#">Datasheet</a>

From:

<http://robosub-old.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

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<http://robosub-old.eecs.wsu.edu/wiki/ee/interface-converters/start?rev=1485661538>

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