Documentations I2C Level Converter

I2C Level Converter Documentation

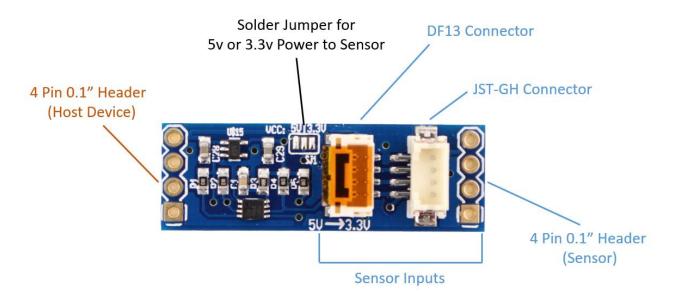


Introduction

The *PC Level Converter* allows you the run 3.3v logic sensors like the <u>Bar30</u> or <u>Celsius</u> and other accessories off of a 5v logic device like the Arduino Uno. Attempting to run the Bar30 or Celsius off of a 5v logic device without a level converter will result in improper operation, and ultimately damage the sensor. A selectable solder jumper lets you power your instrument at 3.3v or 5v, independent of the 3.3v logic level.

Specifications

Function Diagram





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Specification Table

Electrical

Operating Voltage	3.3-5v	
Maximum Current 3.3v Vout	150mA	
Output Connector	4 pin 0.1" header	
Input Connector	4 pin 0.1" header, JST-GH, DF13	
Physical		
Physical Length	34 mm	1.33 in
	34 mm 11.6 mm	1.33 in 0.46 in

Schematic

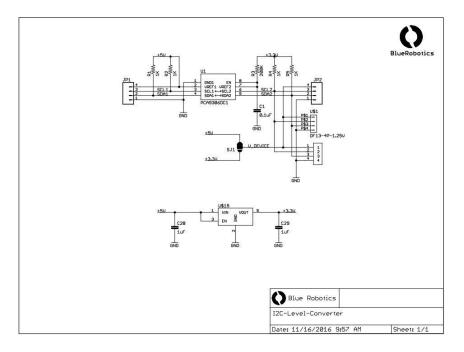
The EagleCAD files for the schematic and board are available on our GitHub page.

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Usage

To use the *PC Level Converter*, first determine if your 3.3v logic instrument should be powered by 3.3v or 5v. Although they are 3.3v and 5v power tolerant, we recommend that the Bar30 and Celsius are powered by 5v for best performance. The solder jumper is set to 5v by default, but it can be switched if necessary. Plug your instrument into one of the input ports (4 pin 0.1" header, JST-GH, DF13) and your 5v device to the host device output port, and your instrument is ready to be used.

