

These signals are connected internally as follows:

Signal	Direction	Function	Electrical Connection
LEFT (T)	Input	Button state -or- Trigger position -or- Thumbstick X axis position	0 V pull-down via a 100K resistor
RIGHT (R1)	Input	Thumbstick Y axis position	NC on trigger jacks
GND (R2)	N/A	Ground	0 V pull-down via a 1K resistor
MIC (S)	N/A	Reference Voltage	1.8 V pull-up via a 1K resistor
DET	N/A	Internal to PCBA	N/A

Table 5 ANALOG INPUT PINOUT

Note that TRS plugs will function as digital inputs when connected to thumbstick jacks.

#### 9.2.4 JOYSTICK DEVICES

The thumbstick jacks are intended to be used with two three-terminal potentiometers. Each potentiometer represents one axis of movement in the thumbstick.

Here is an example of the wiring of triggers that are to be used with these inputs.

Note: The use of an EMI Ferrite bead on the cable near the device is recommended to minimize conducted noise into the circuit.

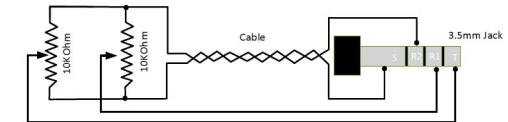


Figure 7 PASSIVE JOYSTICK DEVICE

Electrical Requirements	Range	Notes
Potentiometer Resistance	10±3 kOhms	As measured from top to bottom
Max Input Voltage	≤ 1.8 V	
Input Resistance to Ground	1 kOhm	Min Voltage 0.15V w/ 10 kOhm Pot
Input Resistance to VDD	1 kOhm	Min Voltage 1.65V w/ 10 kOhm Pot
Max Iout w/ 0 Ohms to GND	≤ 1.8 mA	
Max Iin w/ Vin@1.8V	≤ 1.8 mA	

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**Title: Adaptateur 5v vers 1.8v**

Size: A4 Date: 2019-08-13

KiCad E.D.A. kicad (5.1.2)-2

**Rev: V1**

Id: 1/1