This document is intended to be a summary of a device to make it easier to add to the website.

# Product Information

## Product Name

Oak Compact Joystick

## Device Category

Adapted Toys

Aids for Daily Living (ADL)

Assistive Switches

Communication Aids (AAC)

Computer Access

Environmental Controls

Gaming

Keyguard

Kits

LipSyncs

Mounting

Recreation and Leisure

Seating and Positioning

Switch Interfaces

Writing Aids

## User Value Statement

If you're looking for a joystick that is robust, has a range of topper options, and can be used with any device that accepts an analog joystick input, the Oak Compact Joystick may help get to the root of your joystick needs.

## Designer

<>

# Device Info

## Overview

## The Analog Joystick is a midsized joystick compatible with the XAC or other analog input joystick devices. It has a range of toppers which can be securely attached onto the joystick and removed for ease of modification.

## Disability Type

Select one or more disability types:

Agility / Dexterity

Arthritis

Cognitive

Hearing

Mobility

Mobility

Other

Pain

SCI

Vision

## Disability Type Description

Great for anyone looking for a more traditional joystick experience and feel, with the ability to apply a range of custom toppers to maximize comfort in use.

## How To Use

For full instructions please refer to the User Guide.

**Usage**

Using the Joystick

1. Plug the 3.5 mm TRRS cable from the joystick into the host device (such as the Xbox Adaptive Controller). If using the Xbox Adaptive Controller, plug it into X1 to use at the left joystick, or plug into X2 to use as the right joystick.
2. Ensure the arrow on the joystick is pointing in the “up/forward” direction, away from the user.
3. Mount the device if needed (see below).
4. Move joystick as you would with a standard controller. Estimated Cost

**Compatibility**

This device is compatible with the XAC, Enabled Controller, and any other device that accepts a TRRS analog joystick input.

The estimated material cost of the device:

 $0 - $10

 $11 - $25

 $26 - $50

 $51 - $100

 $101 - $250

 $250+

## Attribution

Hardware and enclosure design: Stephen Moyer, Neil Squire

The USB variant software utilizes the Adafruit TinyUSB Library for Arduino which is made available under an MIT license.

The documentation template was created by Makers Making Change / Neil Squire and is used under a CC BY-SA 4.0 license. It is available at the following link: https://github.com/makersmakingchange/OpenAT-Template

# Maker Info

## Project Skills

3D Printing

Custom PCB

Electronics

Laser Cutting

Mechanics

Other

Software

Soldering

Woodworking

## Skills Description

This is an intermediate build requiring soldering and 3D printing.

## Tools Needed

3D Printer

Common Hand Tools

Common Power Tools

Laser Cutter

Soldering Iron

Specialized Tooling

## Print time (hrs)

4-5

## Assembly time (hrs)

1

## Build Instructions

For full instructions please refer to the Assembly Guide.

Print Settings: (3D print guide)

* 0.2mm Layer Height
* 20% infill
* Some optional parts require supports

## Download Link

<https://github.com/makersmakingchange/Oak-Compact-Joystick/archive/refs/heads/v0.9.zip>

## Project Link

<https://github.com/makersmakingchange/Oak-Compact-Joystick/tree/v0.9>

# License

## License

Hardware: CERN 2.0 Weakly Reciprocal license

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