**Title**

Wireless Assistive Switch Link

**Subtitle**

Provides a wireless link between a 3.5 mm switch and an output device that has a 3.5 mm jack.

## Device Specifications

Build Time:

 < 1hr

1-4 hr

 5-10hr

 >10hr

Cost:

 $0 - $10

 $11 - $25

 $26 - $50

 $51 - $100

 $101 - $250

 $250+

Stage: Recently Added

Skills: Soldering, 3D Printing, Mechanics

Need: Mobility, Agility, Dexterity

Disability: Mobility / Physical

Difficulty: Intermediate

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Usages: Aids for Daily Living, Mobility, Recreation and Leisure

Type: Switch Interfaces, Adapted Toys

## Device Details

### Overview

The Wireless Assistive Switch Link is a device that enables a wireless connection between an assistive switch and an output device that has a 3.5 mm jack. In addition to momentary control, the device also has the option of pre-set timed latches of 10 seconds, 1 minute, or 5 minutes. This device may be useful for someone who would benefit from a wireless connection between the switch and the output device or using the latching feature for output devices.

### Usage

An assistive switch is connected to the 3.5 mm jack on the transmitter. The 3.5 mm plug on the receiver is then connected to the input of the device to be controlled. With the receiver powered on, the receiver will activate the output device when the assistive switch is activated.

The device can operate in several modes:

* Momentary Switch: The output device will turn off about 0.5 seconds after the user stops pressing the switch.
* Toggle Switch: Activating the assistive switch will activate the output device. The output device will remain on until the assistive switch is released, and pressed again.
* 10 Second Latched Timer: After the assistive switch is pressed and released, the output device will remain on for 10 seconds and then turn off.
* 1 Minute Latched Timer: After the assistive switch is pressed and released, the output device will remain on for 1 minute and then turn off.
* 5 Minute Latched Timer: After the assistive switch is pressed and released, the output device will remain on for 5 minutes and then turn off.

The mode can be changed by pressing the Mode Button on the Receiver. See the User Guide for instructions.

### Cost

This device can be built for approximately $40.

### Build Instructions

This build consists of 3D printable parts and some commercial off-the-shelf hardware. Refer to the Assembly Guide, Bill of Materials, and 3D Print Guide for instructions on what parts to obtain, and how to print the parts.

#### Skills Required

* Soldering
* 3D Printing
* Mechanics

#### Time Required

3D Printing Time: 5 hours 30 minutes

Assembly Time: < 1 hour

#### Tools

* Small Phillips screwdriver
* Soldering Iron and Solder
* Wire Strippers

#### Components

* Wireless Relay Remote
* Battery holder for 3 AA batteries
* 3 x AA batteries
* 2x Latching Switches
* 1x 3.5mm Male to Female Cable

#### 3D Printing

Refer to the Maker Guide for 3D Printing Instructions.

### Design

This device was designed in Autodesk Fusion 360. Original design files are in the repository.

### Attribution

Designed by Kerilyn Kennedy – Makers Making Change

Documentation by Neil Squire / Makers Making Change