

The LibraryBox Project

http://librarybox.us

Jason Griffey
Associate Professor
Head of Library Information Technology

Open Source Software

















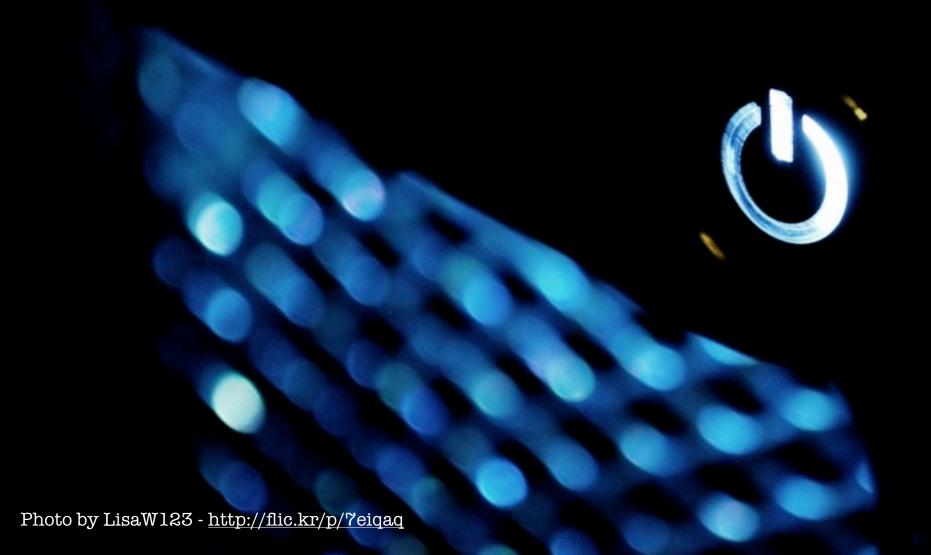




Open Source Hardware



Koomey's Law



What is LibraryBox?



Portable Private Digital Distribution

Open Source

https://github.com/griffey/LibraryBox/





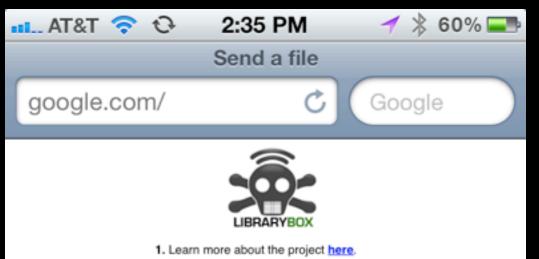






Using LibraryBox

- Connect to "LibraryBox"
 SSID with any wifi device
- Launch web browser
- Load/reload webpage



2. Browse and download files here.

00:00:00 LibraryBox: Free Speech and Free Content!

Name: anonymous Message: LibraryBox Chat

Color: Defaulto | Blue | Green | Orange | Red

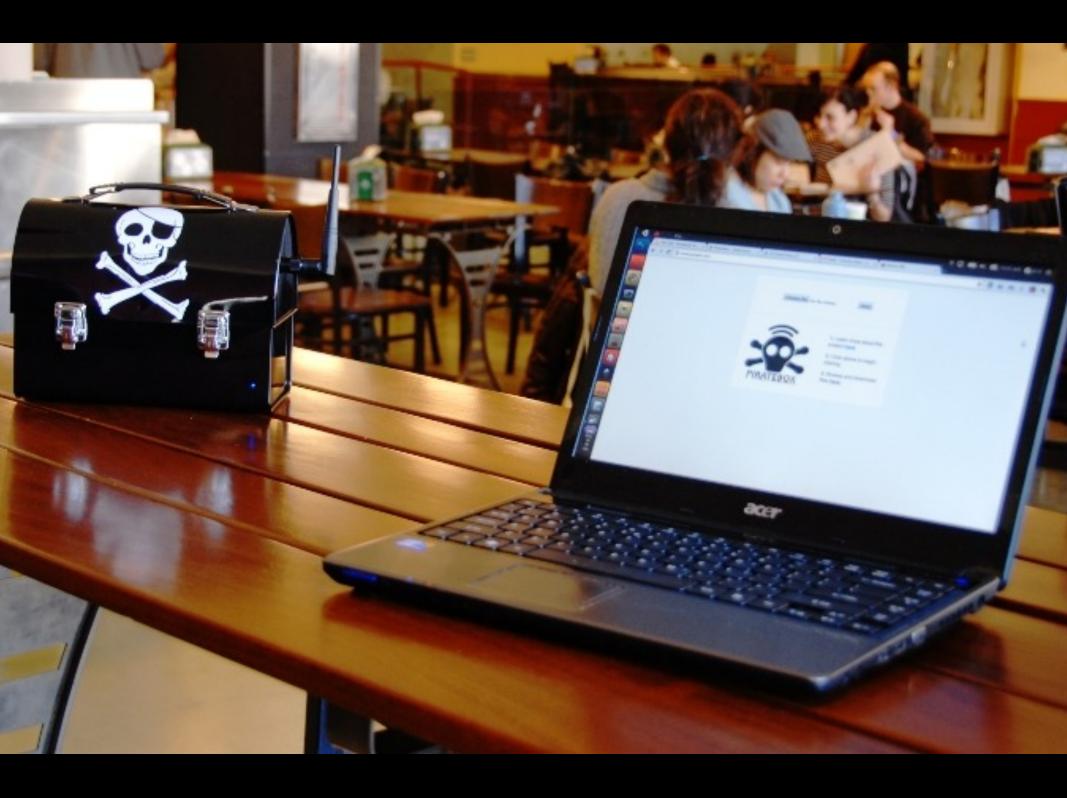






History of LibraryBox





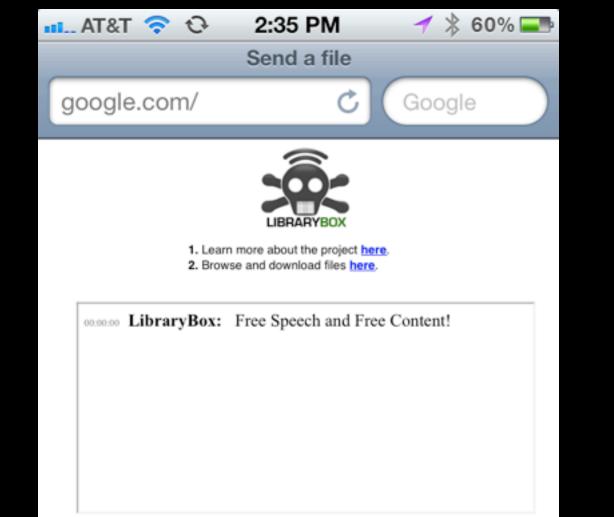




LibraryBox vI



LibraryBox vI.5



Name: aronymous Message: LibraryBox Chat

Color: Defaulto | Blue | Green | Orange | Red











2:35 PM







READ ME

librarybox.lan:8001/.REA C





LibraryBox is a self-contained 802.11 wifi file server that is built with open source code and commodity hardware. The reference hardware that it runs on (the TP-Link MR3020) is USB powered, which means that you can have a digital library distribution tool (books, video, audio...anything, really) running off a battery, and the entire package can fit in a pocket.

LibraryBox was created by Jason Griffey (http://www.jasongriffey.net) and the code behind it is free and open source software. More about the LibraryBox project can be found at http://librarybox.us

LibraryBox is a fork of the PirateBox project, which was created by David Darts and is registered under a Free Art License (2011). To learn more about the PirateBox project, please visit http://wiki.daviddarts.com/piratebox

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Why LibraryBox?

Off The Grid





TP-LINK Portable 3G/3.75G IEEE 802.11n, IEEE 802.11g, IEEE 802.11b Wireless N Router (TL-MR3020)

by TP-Link

**** ✓ (8 customer reviews)

List Price: \$43.92

Price: \$35.34 *Iprime*

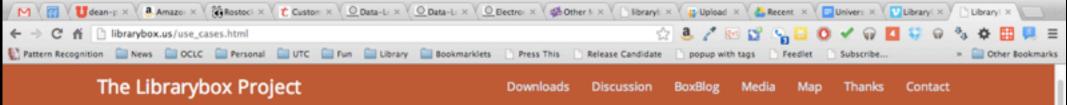
You Save: \$8.58 (20%)

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Sold by LLYtech and Fulfilled by Amazon. Gift-wrap available.

Want it delivered Thursday, October 25? Order it in the next 20 hours and 20 minutes, and choose One-Day Shipping at checkout. Details

62 new from \$35.34 1 used from \$60.41



LibraryBox Use Cases



Education

From language learning to basic math and science skills, LibraryBox can serve educational materials to learners regardless of local connectivity or regional/national censorship. If you can provide power, LibraryBox can provide digital resources for learners to any wifi enabled device.



Healthcare

LibraryBox can provide a platform for distribution of health and first aid information to areas without a reliable electrical grid or Internet access. With the addition of an alternative power source, such as solar, LibraryBox can act as a medical library for a community, accessible from any mobile phone with wifi.



Freedom

LibraryBox acts as a hyperlocal digital access point that isn't capable of being controlled or restricted in the traditional ways. Firewalls and other access controls that work to limit the distribution of information on the Internet are bypassed by LibraryBox, allowing educational and other types of information to penetrate areas that would otherwise be unreachable.



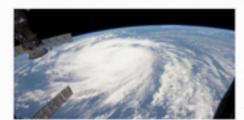
Fun

LibraryBox could be used for gaming, as part of a digital scavenger hunt. It could be used as part of a



Community

In any situation where Internet access is questionable, LibraryBox can fill in the gaps of digital delivery of information. But a LibraryBox on your libraryBox



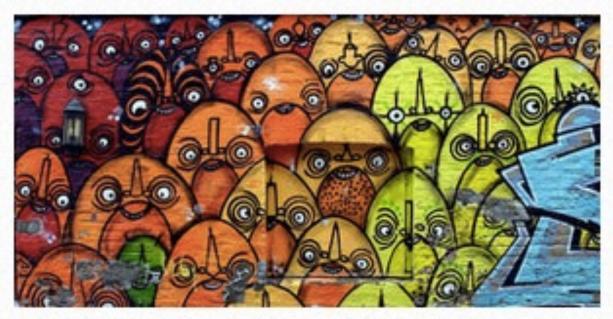
Emergency

In an emergency situation, regular communication channels may be interrupted. In the case of a serious



Community

In any situation where Internet access is questionable, LibraryBox can fill in the gaps of digital delivery of information. Put a LibraryBox on your library's Bookmobile, and serve ebooks to your patrons as you drive around. Take a LibraryBox with you to your community's Farmer's Market and provide instant access to books, pictures, music, and more.



Fun

LibraryBox could be used for gaming, as part of a digital scavenger hunt. It could be used as part of a geocache, providing digital files to the cache's finders. Use a LibraryBox as part of a virtual graffiti installation, a digital dead drop, and much, much more.



Education

From language learning to basic math and science skills, LibraryBox can serve educational materials to learners regardless of local connectivity or regional/national censorship. If you can provide power, LibraryBox can provide digital resources for learners to any wifi enabled device.



Healthcare

LibraryBox can provide a platform for distribution of health and first aid information to areas without a reliable electrical grid or Internet access. With the addition of an alternative power source, such as solar, LibraryBox can act as a medical library for a community, accessible from any mobile phone with wifi.



Emergency

In an emergency situation, regular communication channels may be interrupted. In the case of a serious natural disaster such as a hurricane, forest fire, or tornado, some areas may be without power and Internet for extended periods. LibraryBox can provide access to emergency response information to individuals in these situations cheaply and quickly.



Freedom

LibraryBox acts as a hyperlocal digital access point that isn't capable of being controlled or restricted in the traditional ways. Firewalls and other access controls that work to limit the distribution of information on the Internet are bypassed by LibraryBox, allowing educational and other types of information to penetrate areas that would otherwise be unreachable.

Techie Bits

Open Wrd

Development

Documentation

Downloads

Wiki

Forum

You are here: OpenWrt Wiki » Table of Hardware » TP-Link » TP-Link TL-MR3020

TP-Link TL-MR3020

Even though it is marketed as a "3G travel router", the TL-MR3020 does not include a 3G modern. It simply means that the OEM firmware and GUI support a certain range of USB 3G moderns. OpenWRT supports USB 3G moderns, too. The router is powered through a mini-USB socket stub (5V) and comes with a USB power adapter.

The router is very similar to the TL-WR703N.

Supported Versions

-Table of Contents

- Supported Versions
- Features
- Installation
 - · Method using web GUI (recommended)
 - Manual method using TFTP (experts)
 - OEM mass flashing
 - Failsafe Mode
 - Flash Layout
- · Basic configuration
- Hardware
 - Info
 - Opening the case
 - Internal pictures
 - Serial
 - GPIOs
 - LEDs
 - Buttons
 - External Antenna Hack
 - Boot log (Factory)
- Restoring original firmware
- Link Dump
 - · Relevant forum links:
- Custom IPv6 image for mr3020 (v1.7)
- Tags

Wiki Search

Search

Actions

- Show pagesource
- Old revisions
- Index
- Recent changes
- Login

Translations

TP-Link TL-MR3020

Flash MR3020 with OpenWRT

Flash MR3020 with OpenWRT

Install Piratebox 0.3.2

- Flash MR3020 with OpenWRT
- Install Piratebox 0.3.2
- Run LibraryBox install from USB drive

Ability to navigate command line

- Ability to navigate command line
- Ability to google for vi commands

- Ability to navigate command line
- Ability to google for vi commands
- Bravery

- Ability to navigate command line
- Ability to google for vi commands
- Bravery
- Cunning

Are People Using LibraryBox?



LibraryBoxen in Use



LibraryBoxen in Use



LibraryBoxen in Use

I4 US States

- 14 US States
- 7 Countries

- 14 US States
- 7 Countries
- 5 Continents

- 14 US States
- 7 Countries
- 5 Continents
- Hundreds of Boxen

- 14 US States
- 7 Countries
- 5 Continents
- Hundreds of Boxen
- Thousands of Files

LAKE FOREST LIBRARY

360 E. Deerpath Lake Forest, IL 60045

Hours: Mon-Thurs 9am-9pm; Fri-Sat 9am-5pm; Sun (Sept-May) 1pm-5pm

Ph: 847.234.0636 | Fax: 847.234.1453 Children's Library: 847.234.0648

Search Lake Forest Library



| Search Catalog | Ask a Librarian | A. A. A

HOME

CATALOG

MY ACCOUNT

REGISTER MY EMAIL

CALENDAR

HOURS

CONTACT

LOCATION

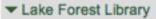












About the Library

Administration

Circulation

Employment

History

Library Art

Specialized Services

User Policies

User Guides

Library Events

Online Databases

Downloads

DVD2GO

- Adults
- Teens
- Children's
- Friends



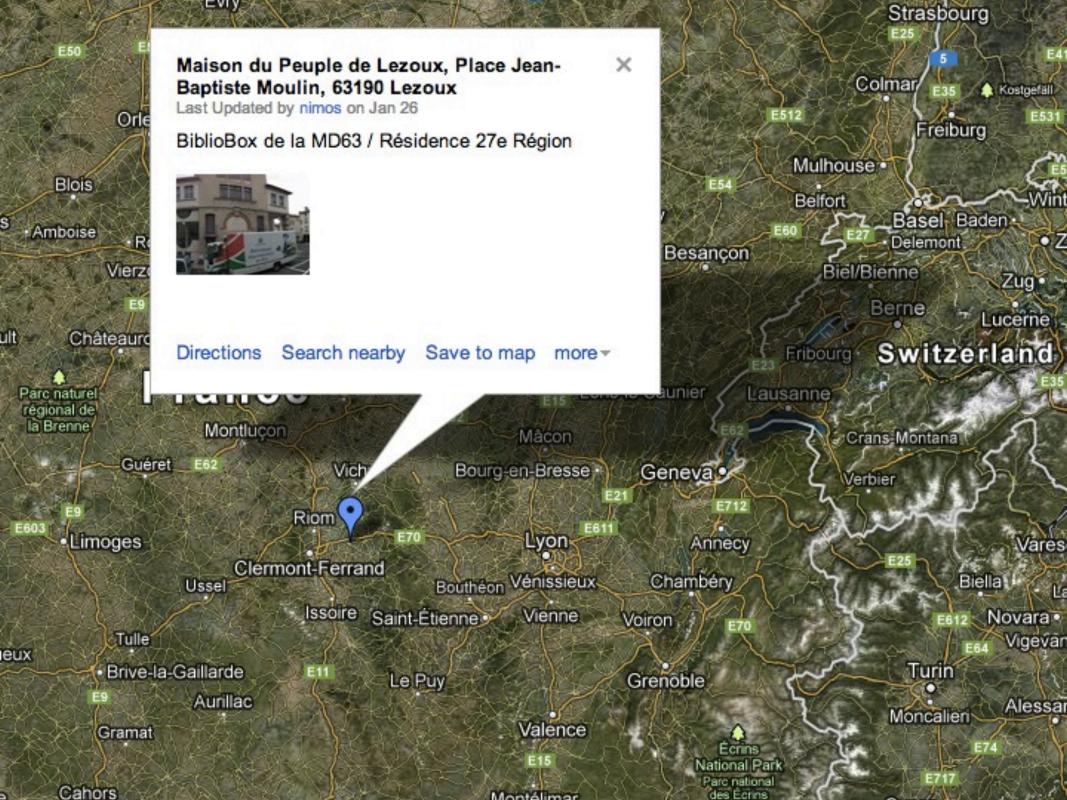


About The LibraryBox is a wireless network used to provide free eBooks and other content to the public. There is no login required and it is completely free. It utilizes open source code from NYU professor David

Darts and Jason Griffey at the University of Tennessee with modifications made by the Lake Forest Library.

Uses: Currently, the main use of the LibraryBox is to provide quality public domain and creative commons licensed materials to the public. We plan to expand this to be a place for you to share your art, writing, and music.

How to Use: It is easy use! Just use your mobile phone, laptop, eReader and connect to the "LibraryBox - Free Content" uirologe network (just like connecting to your uirologe internet at home). Once you connect, use a web















DPLA, LIBRARYBOX AND SXSWI

Posted by Kenny Whitebloom on March 9, 2013 in Blog.

A LibraryBox is an open source, portable digital file distribution tool based on inexpensive hardware that enables delivery of educational, healthcare, and other vital information to individuals off the grid. Folks have been using them to distribute digital content (books, movies, audio and more) and provide access to digital resources to communities of users that do not have access to the internet or where internet access is limited or censored.

At SXSWi the SXSWLAM group, working in conjunction with the UT iSchool are planning to load and distribute 10 LibraryBoxen throughout the SXSWi venue. A portion will be mounted on pedicabs, others will be carried around by volunteers, and others will be placed at the IdeaDrop house (http://erl2013.sched.org), at the Culture Hack panel, and other places where we want to inspire the SXSW participants to check out the "library" and interact with the resources we are making available.

RECENT BLOGPOSTS

Press: Q&A: Knowledge liberator Digital Library Digest: March 28,

2013

ARTstor to help launch the Digital
Public Library of America

SEARCH

search this site...



Next Steps

Continue to iterate functionality

- Continue to iterate functionality
- Make installation even easier

- Continue to iterate functionality
- * Make installation even easier
- Find funding to boost development

LibraryBox v2.0

Statistics

- Statistics
- **Even** easier installation

- Statistics
- Even easier installation
- More responsive/mobile friendly

- Statistics
- Even easier installation
- More responsive/mobile friendly
- Easily customized landing page

- Statistics
- Even easier installation
- More responsive/mobile friendly
- Easily customized landing page
- More hardware choices

Get Involved

http://librarybox.us

KICKSTARTER

Coming in June/July

Thank You!

Jason Griffey

Email: griffey@gmail.com

Site: jasongriffey.net

gVoice: 423-443-4770

Twitter: @griffey

Other: Release Candidate

ALA TechSource



Head of Library Information Technology University of Tennessee at Chattanooga

http://pinboard.in/u:griffey/

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