

# Make your own Hacker Gadget

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# Flashing OpenWrt on TL-MR3020

# Setup for Lab



# Logging into MR3020

The screenshot shows a web browser window with the address bar displaying '192.168.0.254'. The page title is 'TP-LINK' and the main heading is 'Time Settings'. On the left, a navigation menu lists various system settings, with 'System Tools' and 'Time Settings' highlighted. The main content area contains the following configuration options:

- Time zone:** (GMT+08:00) Beijing, Hong Kong, Perth, Singapore
- Date:** 1 / 1 / 1970 (MM/DD/YY)
- Time:** 0 : 0 : 50 (HH/MM/SS)
- NTP Server 1:** 0.0.0.0 (Optional)
- NTP Server 2:** 0.0.0.0 (Optional)
- Get GMT:** Button
- Enable Daylight Saving**
- Start:** 1970 Mar 3rd Sun 2am
- End:** 1970 Nov 2nd Sun 3am
- Daylight Saving Status:**
- Note:** Click the "GET GMT" to update the time from the internet with the pre-defined servers or entering the customized server(IP Address or Domain Name) in the above frames.
- Save:** Button

# Finding Version

The screenshot shows the TP-Link web interface. The top header is green with the TP-LINK logo. On the left is a vertical navigation menu with various settings categories. The main content area is titled 'Firmware Upgrade' in a green bar. Below this, there are fields for 'File' (with a 'Choose File' button and 'No file chosen' text), 'Firmware Version' (3.17.2 Build 140408 Rel.32256n), and 'Hardware Version' (MR3020 v1 00000000). An 'Upgrade' button is located at the bottom of the main content area.

**TP-LINK®**

- Status
- Quick Setup
- WPS
- Network
- Wireless
- DHCP
- Forwarding
- Security
- Parental Control
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- System Tools**
- Time Settings
- Diagnostic
- **Firmware Upgrade**

## Firmware Upgrade

File:  No file chosen

Firmware Version: 3.17.2 Build 140408 Rel.32256n

Hardware Version: MR3020 v1 00000000

# OpenWrt Support for MR3020

- <http://wiki.openwrt.org/toh/tp-link/tl-mr3020>
- Version 1 in my case



# OpenWrt Web Interface

The screenshot displays the OpenWrt web interface in a browser window. The address bar shows the URL `192.168.1.1/cgi-bin/luci/stok=1b4149588cf7ddb02235d05cbe7c7491/admin/status/`. The page header includes the OpenWrt logo, the title "OpenWrt Attitude Adjustment 12.09", and system metrics: "Load: 0.02 0.11 0.06" and "Auto Refresh: on".

The main navigation menu includes "Status", "System", "Network", and "Logout". The "Status" section is active, with sub-tabs for "Overview", "Firewall", "Routes", "System Log", "Kernel Log", "Processes", and "Realtime Graphs".

The "Status" section is divided into three main categories:

- System**: A table of system information.

Router Name	OpenWrt
Router Model	TP-Link TL-MR3020 v1
Firmware Version	OpenWrt Attitude Adjustment 12.09 / LuCI 0.11.1 Release (0.11.1)
Kernel Version	3.3.8
Local Time	Thu Sep 8 15:49:55 2011
Uptime	0h 6m 4s
Load Average	0.02, 0.11, 0.06
- Memory**: A table showing memory usage with progress bars.

Total Available	18024 kB / 29212 kB (61%)
Free	10012 kB / 29212 kB (34%)
Cached	6328 kB / 29212 kB (21%)
Buffered	1684 kB / 29212 kB (5%)
- Network**: A table showing network status.

IPv4 WAN Status	 Not connected
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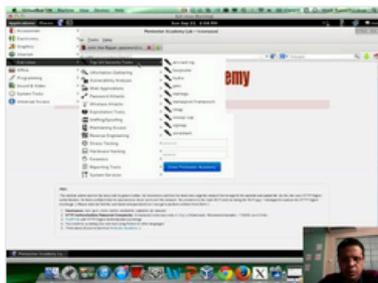
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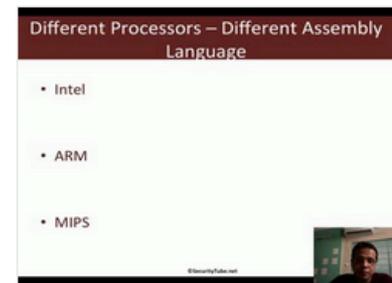
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