



[Main Page](#)
[Build a RepRap](#)
[Glossary](#)
[Reference](#)

Participation

[Recent Changes](#)
[Get a Wiki account](#)
[Create a new page](#)
[Donation Page](#)
[Policy](#)

Community

[RepRap Forum](#)
[RepRap IRC](#)
[Development Index](#)
[RepRap User Groups](#)
[Community Portal](#)
[Licence](#)

Tools

[What links here](#)
[Related changes](#)
[Special pages](#)
[Printable version](#)
[Permanent link](#)
[Page information](#)
[Cite this page](#)

Page [Discussion](#)

Read

[View source](#)

[View history](#)

Search RepRap



M Prime One

[English](#) • [العربية](#) • [български](#) • [català](#) • [čeština](#) • [Deutsch](#) • [Ελληνικά](#) • [español](#) • [فارسی](#) • [français](#) • [hrvatski](#) • [magyar](#) • [italiano](#) • [română](#) • [יידיש](#) • [lietuvių](#) • [Nederlands](#) • [norsk](#) • [polski](#) • [português](#) • [русский](#) • [Türkçe](#) • [українська](#) • [සිංහල](#) • [עברית](#) • [azərbaycanca](#)

M Prime One is a free 3D printer intended to be simple, low-cost and easy to build and use.

With the M Prime One, we have designed a 3D printer focusing on three main points:

- **Free design.** The printer have been designed from scratch in a free 3D software: FreeCAD. All the files have been published under the less restrictive license we have found (CC BY 4.0). This way anybody can download the files, modify them and use them for their own purposes.
- **Simplicity.** The design has few different parts (for example, cold bed, 4 motors, just two types of screws and one type of radial bearings) in an effort to reduce building complexity, cost and maintenance.
- **Documentation.** Apart from the files, you can find the printer firmware, list of materials, slicing profiles... in [the repository](#), receive support in our [Q&A site](#) and soon read the complete assembly manual in the [manuals repository](#).

Features

The features of the M Prime One are:

- Printing surface: 200x150x150mm.
- Resolution up to 0.05mm layer height
- 1.75mm bowden extruder.
- Compatible with any hotend with 12mm diameter mount.
- Magnetic bed, easy to place and remove.
- Auto-level system with inductive/capacitive sensor.
- Cable management integrated in the design
- Integrated electronics holder (compatible with RAMPS or SAV Mk1, can be adapted to other boards)
- Optional LCD holder (compatible with Smart Controller)

How to build an M Prime One

We are currently documenting the project, but the files have already been released and you can build the printer. You can find all the necessary files in the following links:

- Github repository: https://github.com/diegotrap/M_Prime_One
 - Assembled 3D model: https://github.com/M-Prime/M_Prime_One/blob/master/m_prime_one.fcstd
 - Bill of Materials: https://github.com/diegotrap/M_Prime_One/blob/master/documentation/BOM.md
 - Firmware: https://github.com/diegotrap/M_Prime_One/tree/master/firmware/Marlin
- Support and discussion: <https://plus.google.com/u/0/communities/108084856251985677965>
- Where to get parts? [M Prime](#)

Wiring diagram

M Prime One

Release status: working

Description free, simple 3D printer

License [CC-BY](#)

Author [Diego Trapero](#)

Contributors

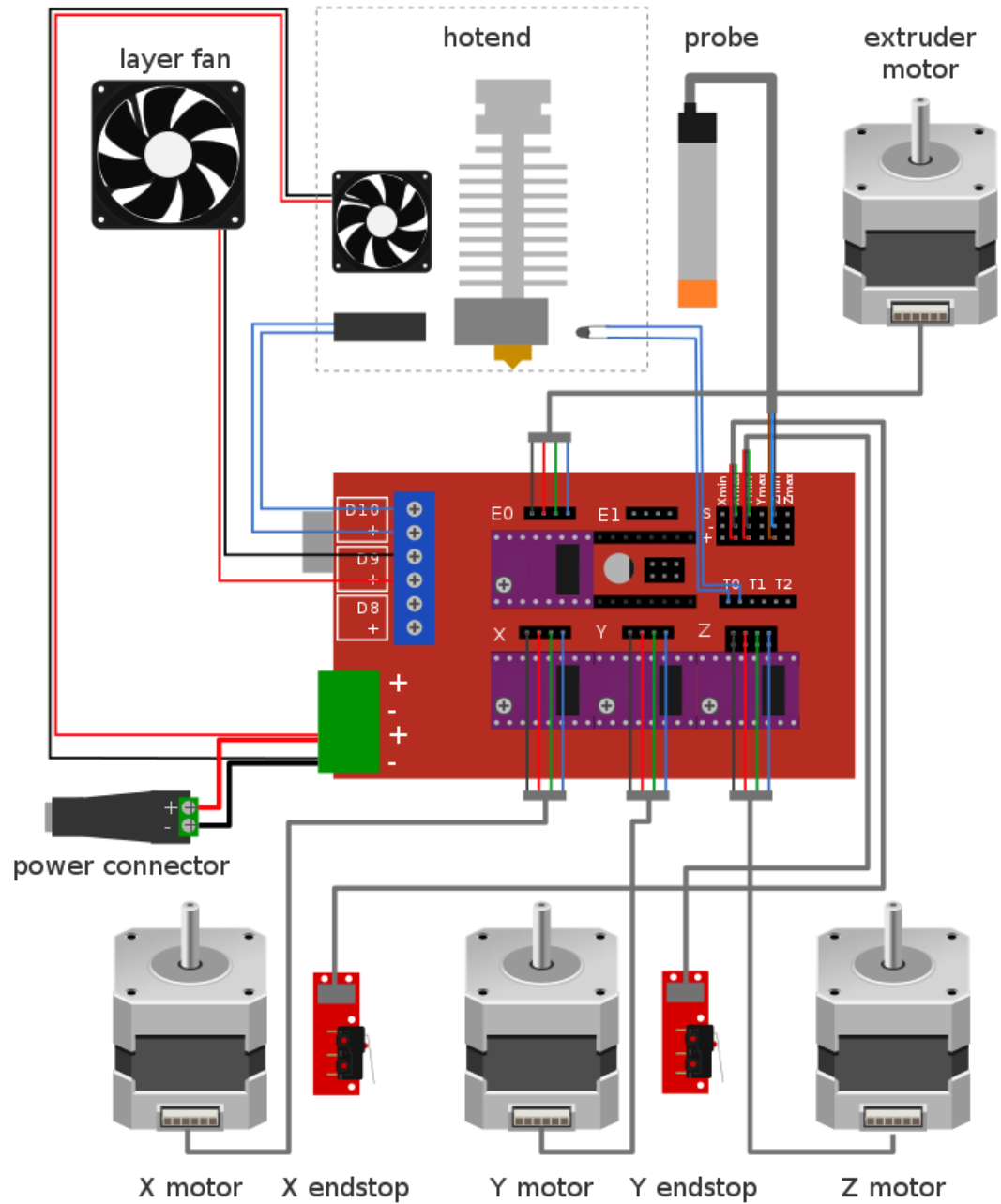
Based-on [Smartrap](#), [Prusa i3](#)

Categories

CAD Models [Github repository](#)

External Link <http://mprime.io>

M Prime One wiring diagram



M'

M Prime 3D printers

Categories: [Working developments](#) | [Smartrap, Prusa i3 Development](#)

This page was last edited on 18 January 2019, at 04:36.

Content is available under [GNU Free Documentation License](#) unless otherwise noted.

[Privacy policy](#) [About RepRap](#) [Disclaimers](#)

