

# Electronic enclosure for MKS GEN 1.4 and GEN-L board



We have recently published a new electronic box compatible with Scalar S / M / L XL / XLP.

## Where to download it?

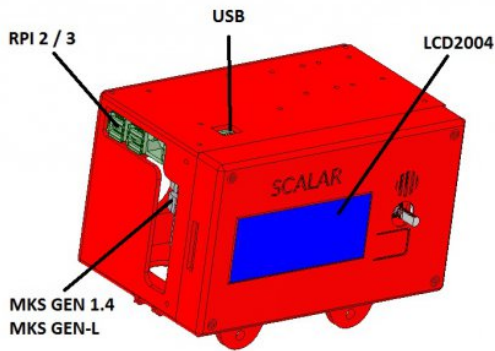
This box is available for free download on our dedicated Thingiverse page: <https://www.thingiverse.com/thing:3001506>

## What's news with this enclosure?

It is compatible with these controller boards

- [MKS GEN 1.4](#)
- [MKS GEN-L](#)

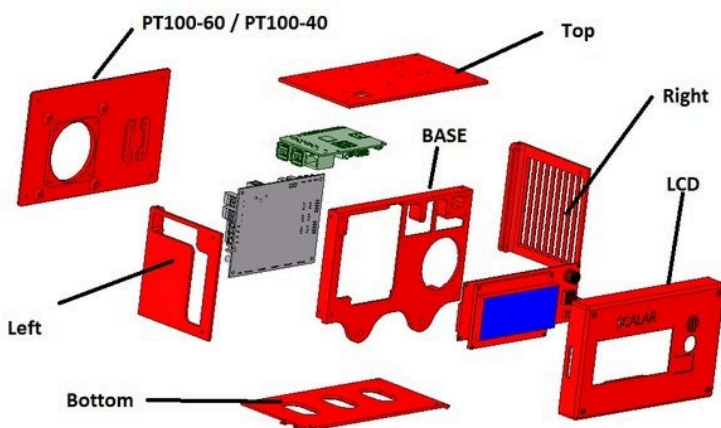
You can also include a [Raspberry pi 2 / 3](#)



## What are the differences with the previous enclosure?

- The USB connector is now on top
- The enclosure is slightly taller
- The enclosure is thinner
- 2 special holes are dedicated for LED WS2812 that will give you a visual status on your printer status.

## How to assemble the box?



It contains 7 plates

- 1 base where all the other plates will attach (compatible with 3030 extrusions or 2020 depending which version you print)
- 1 front facade where the [RepRapDiscount LCD2004](#) screen will fit
- 1 bottom side that will fit 3030 extrusion profiles or 2020 extrusion profiles (check which version you print)
- 2 side plates
- 1 top plate (Top) with a dedicated hole for MKS USB cable
- 1 back plate (2 models):
  - 1 model with 1 slot for [60mm fan](#)
  - 1 model with 2 slots for [40mm fans](#)

This last plate contains also

- 1 slot for [1 80mm dust filter grid](#)
- 1 slot for [E3D PT100](#)
- 1 slot for WS2812 LED

## How to attache plates together?

you will need a few plastic screws

- 16 [pcs 3x8 thermo screws](#)
- 4 pcs [3x20 thermo screws](#)
- 2 [pcs M6x12 screws](#) (for 3030 version) or 2pcs [M4x8 \(for 2020 extrusions\)](#)
- 2 [M6 3030 T-Nuts](#) or 2 [M4 2020 T-Nuts](#)

## What are the tips and limitations to know?

- The bottom plate can be glued to the base. 2 screws can be used to hold things together while the glue is

setting. You can remove these screws afterward when you will need to place the enclosure on top of an extrusion profile

- The base plate and the bottom plate are compatible only with 3030 extrusion profiles.

## **How many print hours do i need to make the enclosure?**

You will need (with a 0.8mm nozzle and 0.2mm layers):

- +3 hours for the front plate
- 2h30 for the base
- 1h30 for each side plates
- 2 hours for each remaining plates (3 plates)

For a total of about **13h of printing**

## **Can i buy the enclosure already assembled?**

[The enclosure is available here](#)