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K1 ITX PC Case Modular

60 HOURS

10 LITERS

1KG

~50\$

60 HOURS

10 LITERS

1KG

~50\$

☆☆☆☆☆ 0 reviews

Kibo

@Kibo_157653

Support designer

Boutique ITX Case Customizable & Expandable

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updated April 11, 2023

Details
Files 49
Makes & Comments 10
User print 0

Description

[↓ PDF](#)

K1 Small-Form-Factor ITX Case

	K1 240	K1 Max 240	K1 Max 280
max GPU	290x59x120mm	350x60x150mm	360x80x150mm
Volume	10L	12L	14L
Footprint	145x315mm	145x375mm	165x375mm

	This model	K1 Max 240	16th April or earlier

ITX Case Kibo K1 2nd Iteration

60 HOURS

10 LITERS

1KG

~50\$

3D Printed ITX PC Case Timelapse

TIMELAPSE

~70\$

Hardware Compatibility:

GPU Compatibility & CPU Cooler Height:

max. Size: 290mm*59mm*120mm

	G...PU max thickness	C...PU Cooler max height
Variation 1	G 43	C 65 for NH-L9x65
Variation 2	G 59	C 49

Two x 240-Radiators[240 AIO]

124x282mm x [20mm + Hat height]

K1 is expandable in it's height, to accommodate a variety of cooling options from Air cooling up to sophisticated custom loops.

Expansion modules are sized from 5-50mm and stackable on each other. K1 starts with 20mm headspace, while the 20mm footspace should be reserved for cable organization.

SFX & SFX-L PSU

125x64x130mm

K1 supports with a rack-slot-System both SFX and SFX-L PSUs. This system allows the PSU to be smoothly pushed into place and can easily accommodate bulky Liquid AIOs through rearranging the Headspace Above the PS.

Sidepanels

200x300x3 mm

The Sidepanels are held in place by a magnet & nickel-band combo, to provide easy access and easy modification. Sized 20x30x0.3 cm you can easily order custom acrylic-glass from online laser-cut-services or design Sidepanels yourself!

New [Sidepanels](#)

Patreon & K1 Max Launch

Creating these modular and versatile ITX PC cases takes a lot of time and effort.

But hear me out!

It all started with the Kibo K1 240 as an novelty project, bringing modularity and design together to create a 3D-printable Competitor to the Boutique ITX Case Scene(e.g. T1, Wintercase, louqe S1, etc.), that were at the time (2021) not broadly accessible.

As time moved on, newly released GPU sizes grew, resulting in a new demand for cases for those larger GPUs. Thus a new dream was born, to create a fully 3D-printable Mainstream ATX Tower. And the first step for me was to adapt the old K1 240 to the current demands:

Fitting an oversized GPU in an ITX Case, while preserving the same space efficiency is hard!

If you find value in the K1 concept and want to support me on these projects you will find me at [my Patreon page](#), offering **membership rewards** such as the Files of the K1 Max.

If you want to make a purchase instead of joining a membership, I also have set up [my Ko-Fi Shop](#).

Thank you for the support!

Development-Blog

You will find a more detailed development log about the beginnings of the K1.

I am open for any questions or constructive criticism, message me on the above links!

Shoppinglist:

PCIe x16 Riser Cable(choose one)				
		my sample	pcie 3.0	pcie 4.0
Dual reverse riser	180-200mm	ssupd aliexpress	aliexpress	aliexpress
90° riser	200-220mm	de us	de us	de us

would recommend [ADT-Link](#) for their variety in pcie risers, for other projects

Power Extension & Switch			
		cable length	aliexpress
IEC320 C14 to C13 Extension cord	30cm ~ 1ft	de us	right angled
Power Button	+15cm	de us	[22 19 16 12mm]

Screws			
CS M3x6mm	60-100	CS M3x10mm	50-100
CS M3x20mm	4	M3 inserts	20-30
UNC 6-32x6 hex	1	M3x6mm standoff	4
M3x6mm pan head screw			4

CS = Countersunk screws if not mentioned otherwise

Magnets			
Magnet	D6x3mm	20	de us
Nickel-Steel Band	10x0.15mm	1.2m	de us
Doublesided tape	3m 300lse	1.2m	de us

Filament

~1kg Filament (*preferably heat resistant for the Barebone Parts to avoid warping*)

ABS ASA PETG to name a few

Exact amount [↩](#)

Required Prints Checklist:

Barebone 60h:

- Front Barebone + Riser
- Mid **GXX**
- Backplate **GXX**
- 2x Main Beams

Cosmetics +40h:

- Front panel
- Grills
- Sidepanels
- Feet
- Hats

What Parts do i need to print?

Total Printing Time: ~100h

No Supports needed!

Added Versions with non-requirement of threaded inserts.

I still strongly recommend you to use parts with threaded inserts.

Without them, the parts will split easily between layers.

Inserts absolutely recommended!

[ruthex-branded M3x5.7 inserts] [[us](#) | [eu](#) | [de](#)]

You can also use similar M3-inserts with the blind hole dimensioned at 4x5.7mm.

If you trust your 3D printer you could print everything out in a week of time, initiating a print every 8-12 hours.

- Bed-adhesion: 4mm Brim Recommended
- Layerheight: 0.2mm
- Bottom/Top-thickness: 0.8mm
- Wallthickness: 1.2mm
- Innerwall Flow: 102%
- max Speed: 50mm/s
- Infill: 30%

Tags

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Model origin

The author marked this model as their own original creation.

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