

K1 Max ITX PC Case Modular

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Kibo
@Kibo_157653 Support designer

Boutique ITX Case Customizable & Expandable

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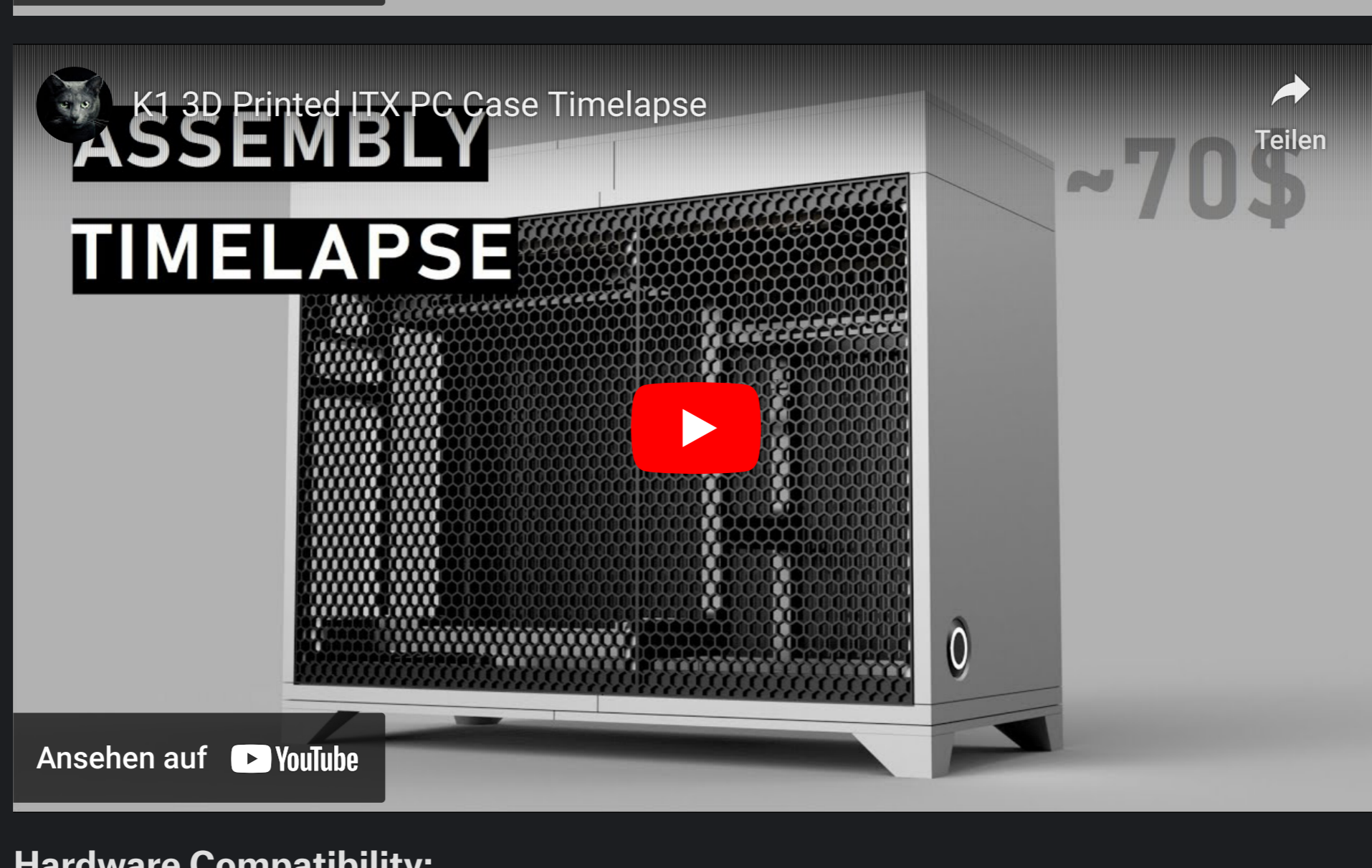
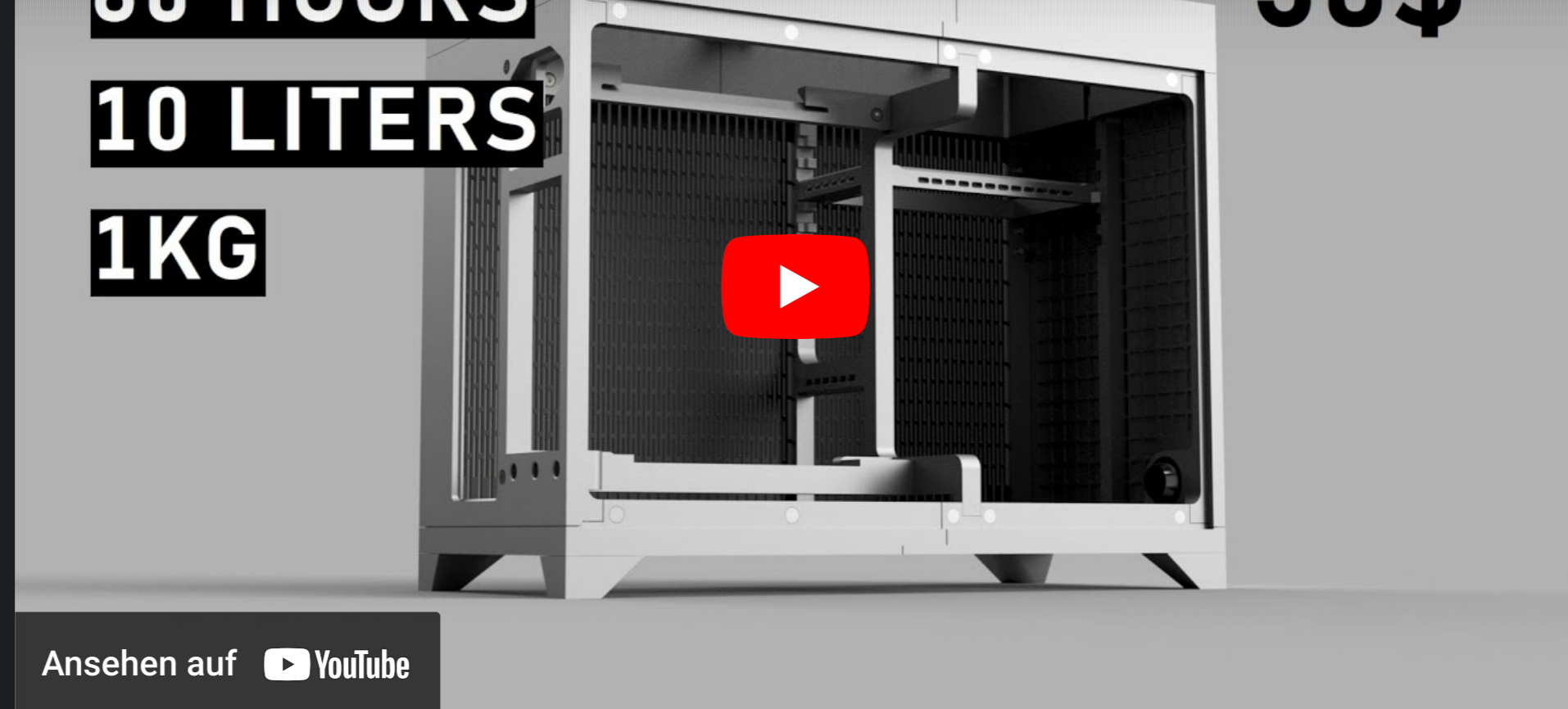
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5 4 0 85 Analytics updated April 11, 2023

Description PDF

K1 Small-Form-Factor ITX Case

	K1 240	K1 Max 240	K1 Max 280
max GPU	290x59x120mm	350x60x160mm	360x80x160mm
Volume	10L	12L	14L
Footprint	145x315mm	145x375mm	165x375mm
	K1 ITX Case	This model	16th April or earlier



Hardware Compatibility:

GPU Compatibility & CPU Cooler Height:

max. Size: 360mm*60mm*150mm

	G...PU max thickness	C...PU Cooler max height
Variation 1	G 60	C 55

Two x 240-Radiators[240 AIO] 124x348mm x [15mm + 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 15mm headspace, while the 15mm 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 200x360x3 mm

The Sidepanels are held in place by a magnet & nickel-band combo, to provide easy access and easy modification. Sized 20x36x0.3 cm you can easily order custom acrylic-glass from online laser-cut-services or design Sidepanels yourself!

[Sidepanels](#)

Where can I find the Files?

[my Patreon page](#) Or [my Ko-Fi Shop](#)

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](#).

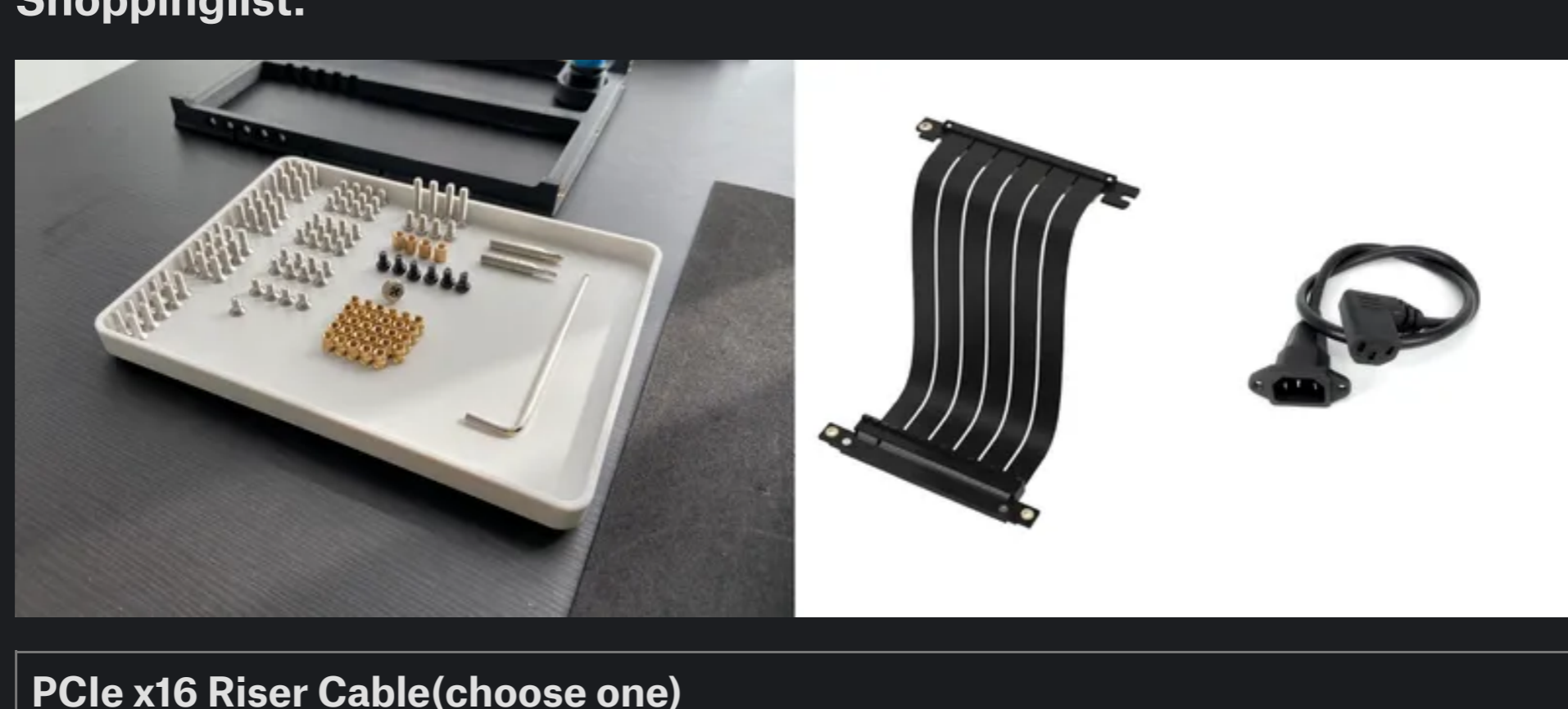
Thank you for your support!

[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)

		pcie 3.0	pcie 4.0
Dual reverse riser	190-210mm	aliexpress	aliexpress

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	48	CS M3x10mm	32
CS M3x16mm	13	CS M3x20mm	7
M3 ruthex inserts	36		
M3x6mm pan head screw			4

CS = Countersunk screws if not mentioned otherwise

Magnets

Magnet	D6x3mm	24	de us
Nickel-Steel Band	10x0.15mm	1.44m	de us
Doublesided tape	3m 300lse	1.44m	de us

Filament

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

ABS ASA PETG to name a few

Required Prints Checklist:

- Barebone 80h:
- Frontbone
 - Midbone
 - PSU-bone
 - Backbone
 - 2x Beam-part-a
 - 2x Beam-part-b
 - 2x Beam-part-c
- Cosmetics +60h:
- Frontpanel
 - Backpanel
 - Grills
 - Sidepanels
 - Feet
 - Hats

Total Printing Time: ~140h

No Supports except backbone

[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.

Tags

- mk3 minimal modular modern prusai3mk3 + more

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Musical Instruments

Ends in 49 days

[Join with this model](#) [Contest detail](#)

Bookends

Ends in 4 days

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Model origin

The author remixed this model.

K1 ITX PC Case Modular
by Kibo

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