

sinclair
ZX Spectrum Next

EDIT

PEAK

A reference point for the Spectrum next –

A study into how the Spectrum might be today, assuming uninterrupted evolution and survival of Sinclair Research

Sinclair

LOADING

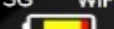


IN SESSION

SOLSTICE

3G

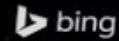
WiFi



15:45

Mon 18 Aug

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rick dickinson new spectrum concept study



Grandiose Gear
The New York Audio Show

Malware aware
Unpatchable Malware infects USBs...

Popular Now
Apple iPhone 6 • Human Rights











- What is RETRO –
- Why re-create a successful product from the past?
- The specification - what to change and what to keep, and why?
- What are the driving forces – technology, logic, emotion?
- A solution from the period?
- A solution of today?
- Which spectrum version?



sinclair

ZX Spectrum +





Sinclair
ZX Spectrum+

128K 

.....and the industrial design 'roots' of the Spectrum plus & 128k?



.....a true industrial design evolution of the original Spectrum did not occur!

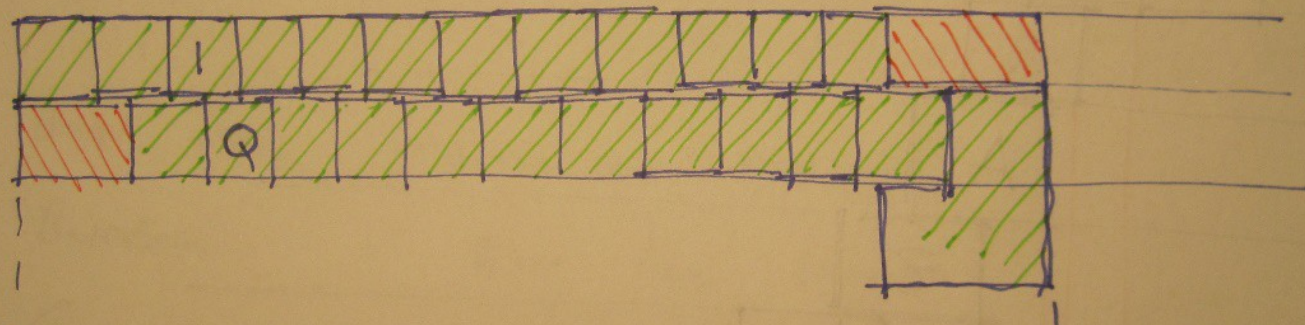
- Corporate convenience
- Lack of development time to market
- Existing massive tooling investment

.....Spectrum next.....?

The first item to design, as always:

- The keyboard.
- technology, layout, size shape and thickness, aesthetics.

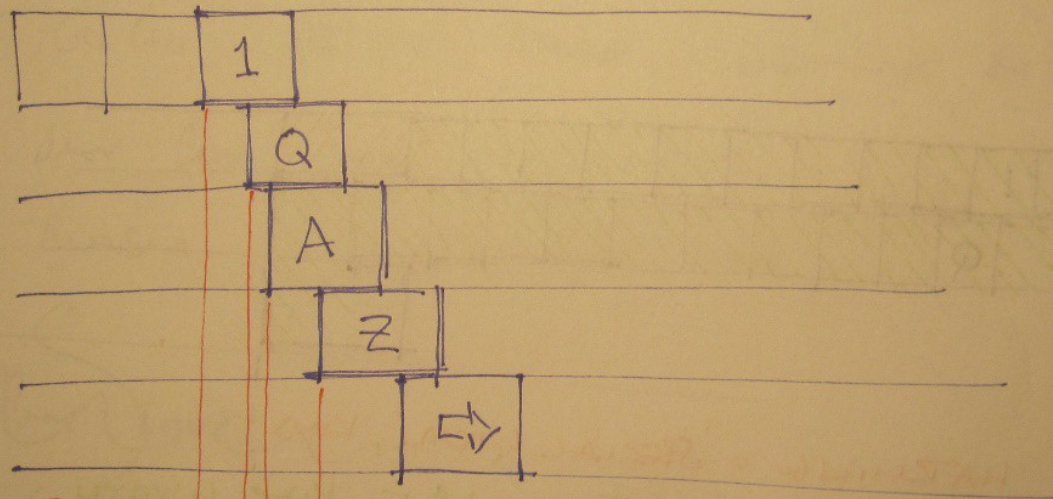
Zx + Keyboard Foot Print / Profile



- RED HATCHING = 'SPECIAL WIDTH' KEYS
 - GREEN HATCHING = FULL 19.5 KEY WIDTH
- * TOP TWO ROWS DETERMINING KEYBOARD FOOT PRINT WIDTH.

(24-1)

Z+ 'QWERTY' PITCH DATUM.



9, 87

~~XXXXXXXXXX~~

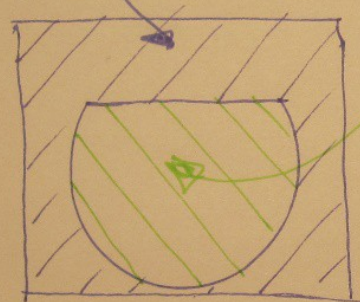
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24, 67

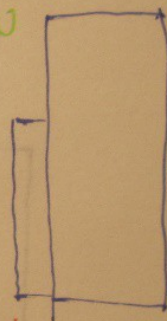
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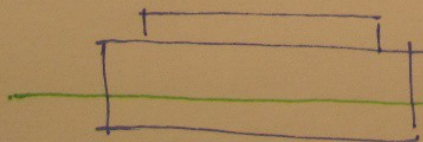
DOWN FLAT
+ 'SQUARE'



SHALLOW
'DISH'

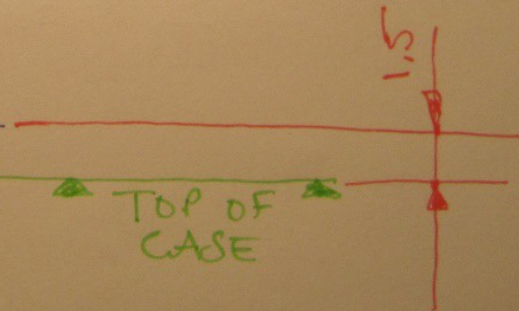


0.5

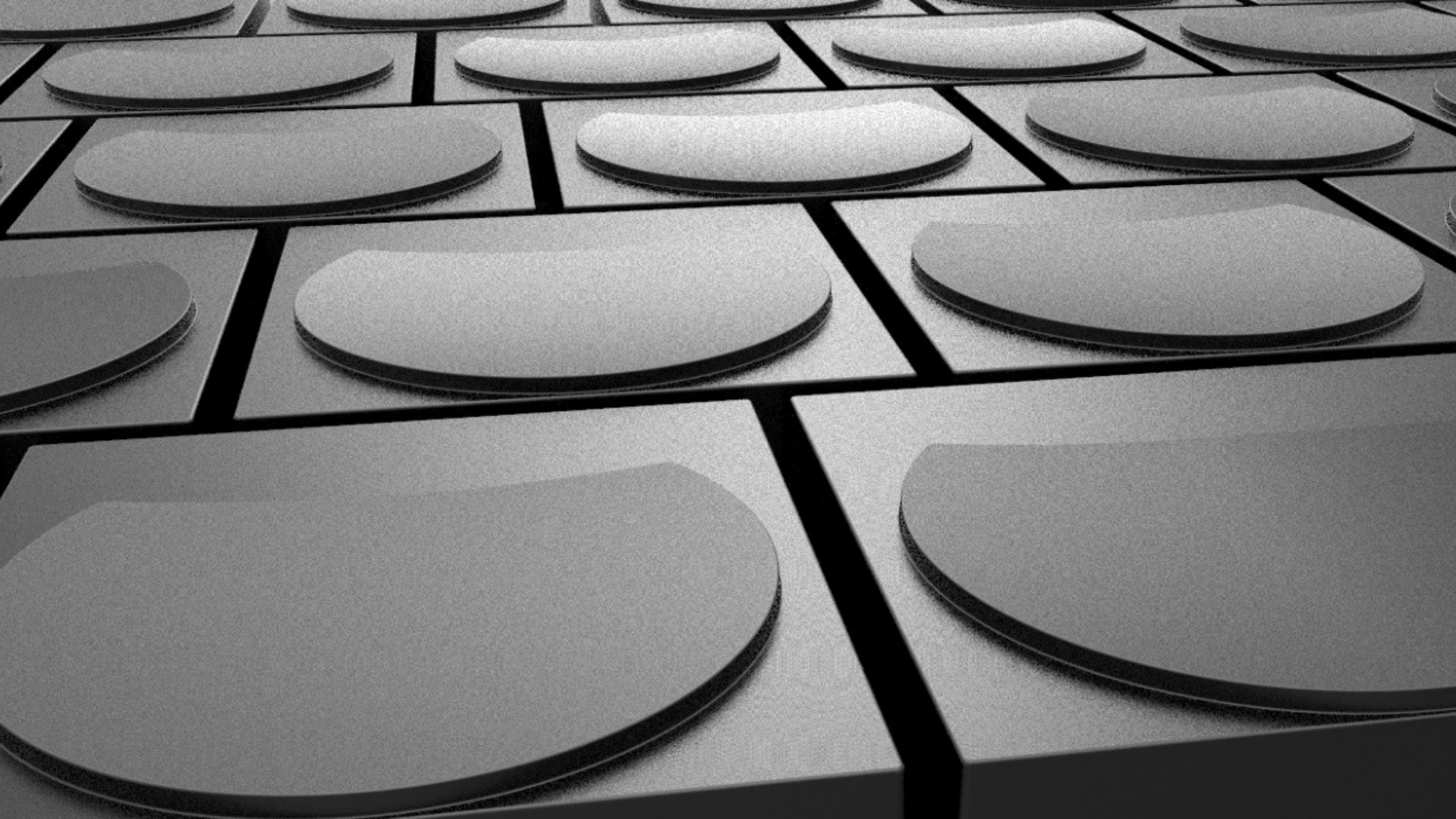


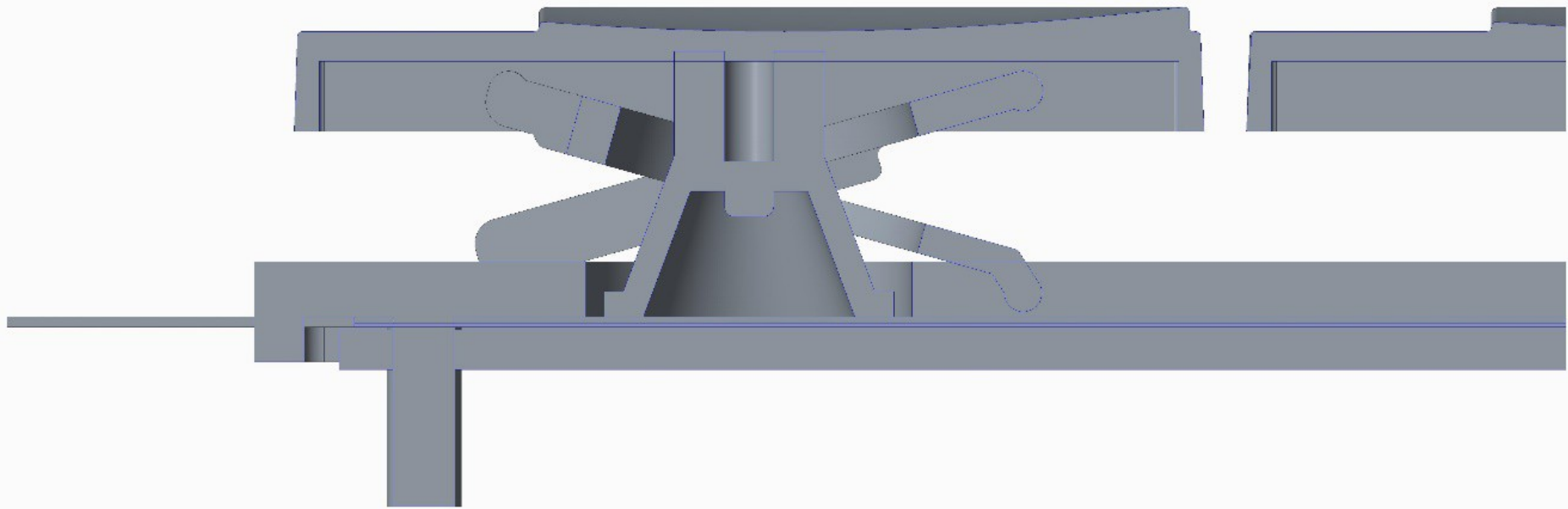
TOP OF
CASE

1.5

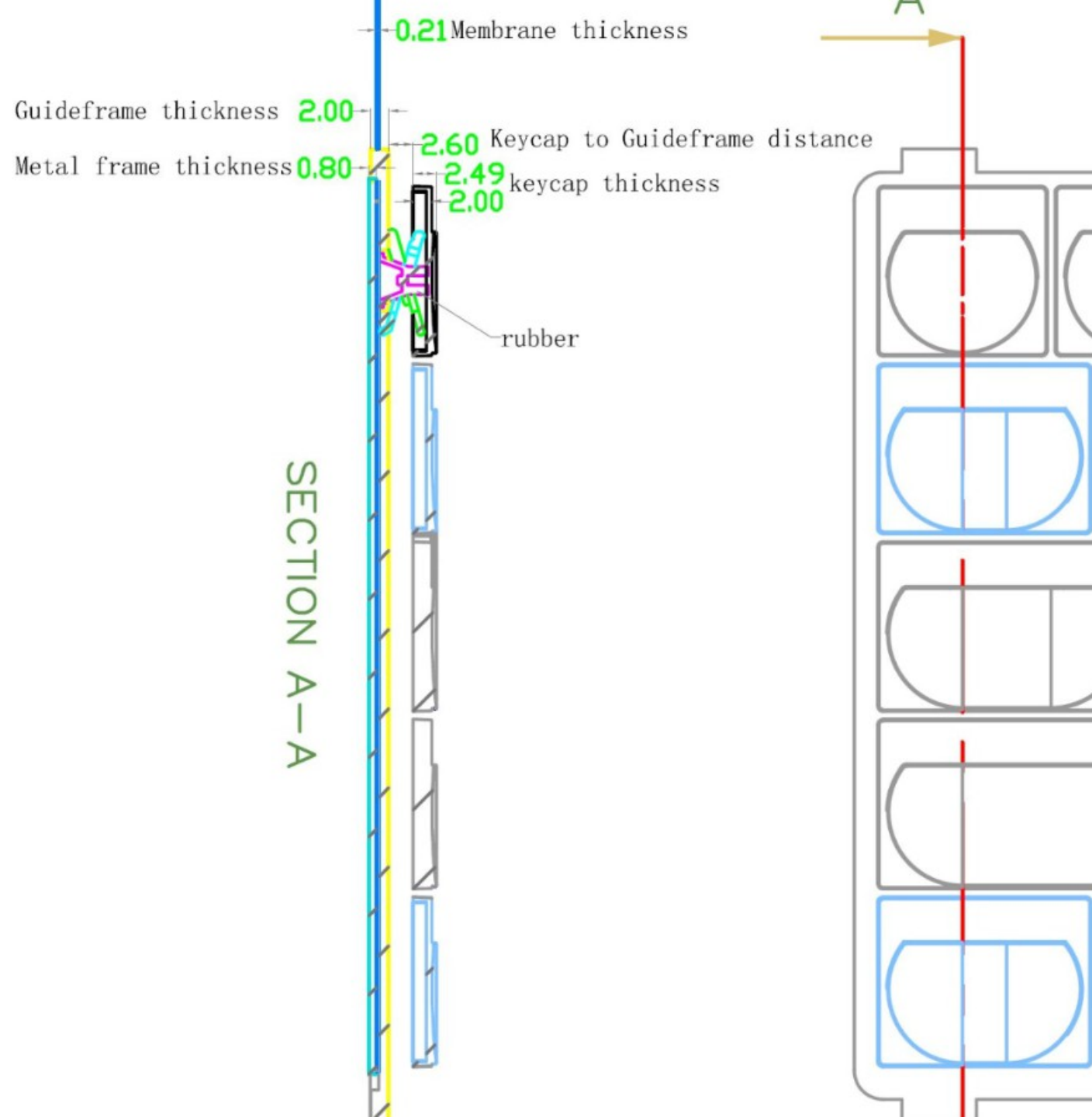


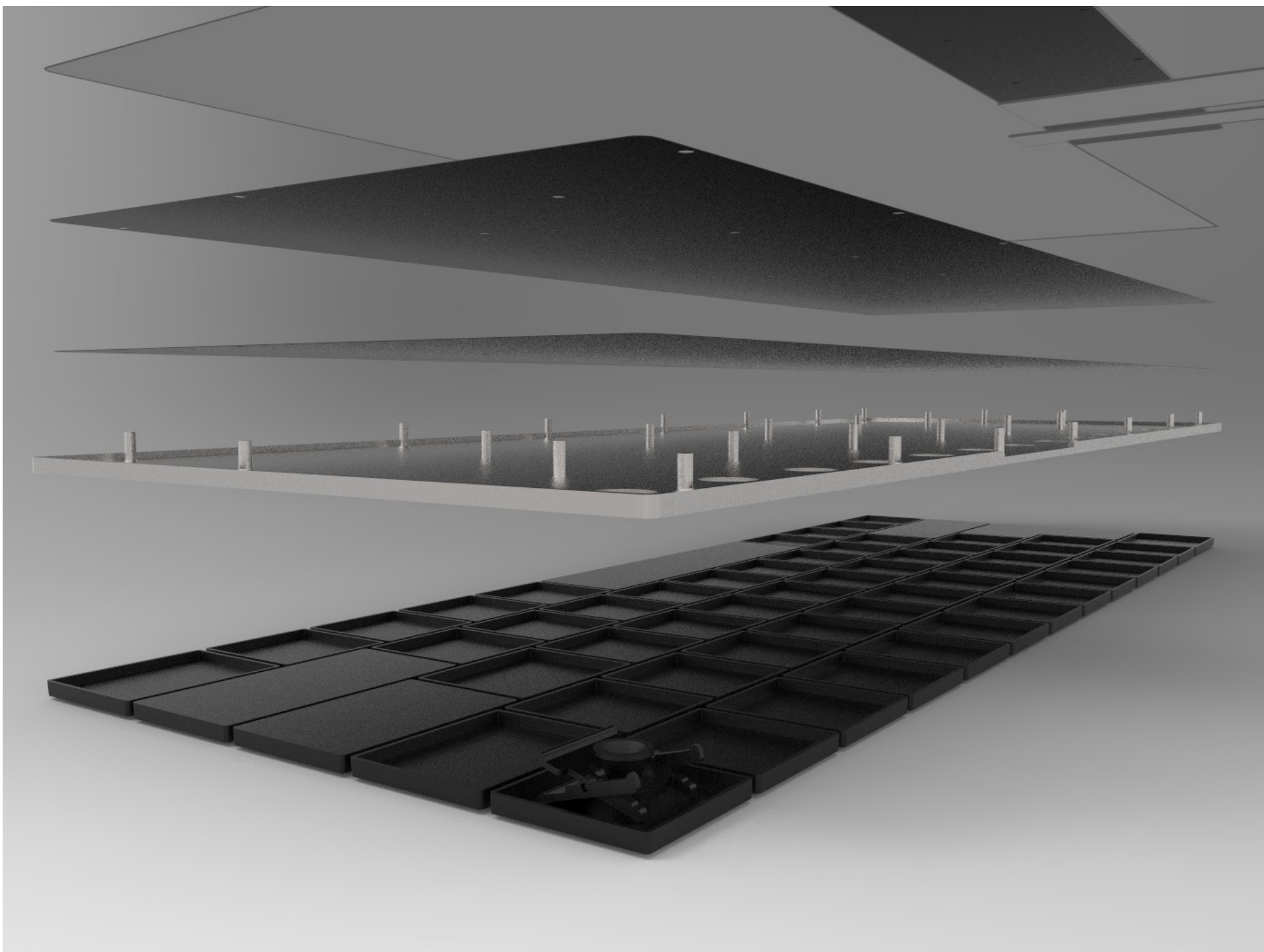
1001

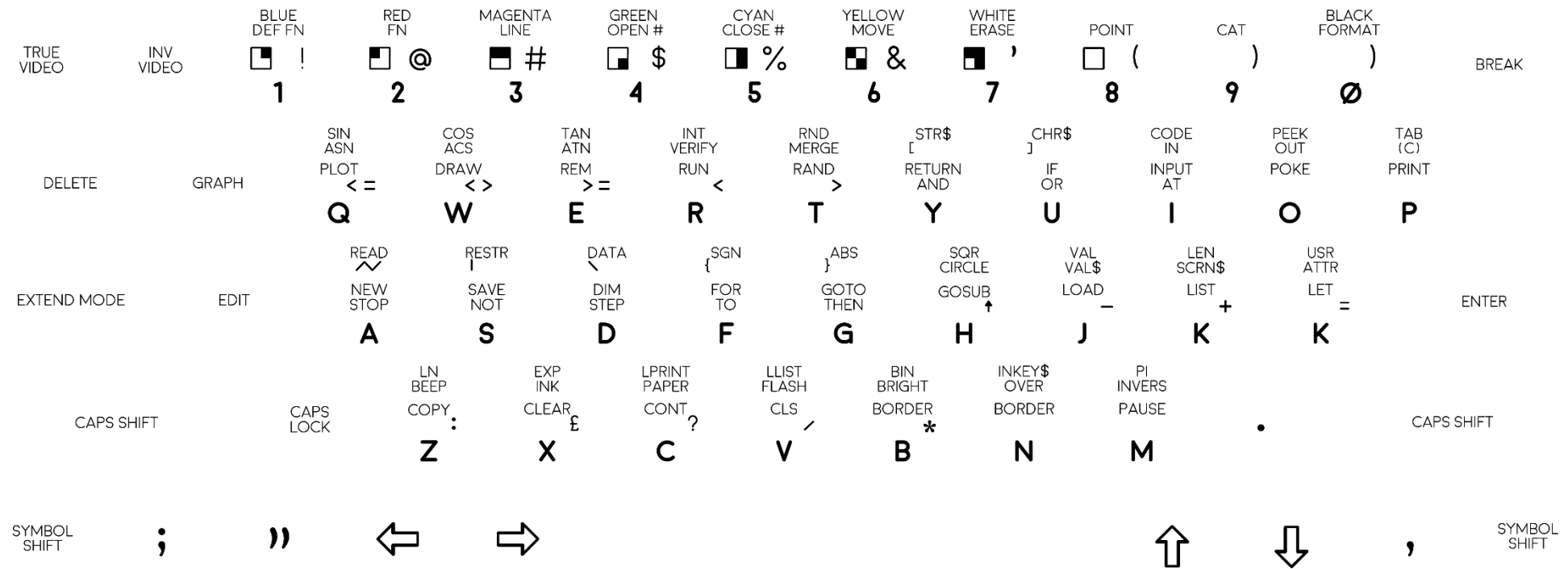




Clipping State:XSEC0001









- New bespoke PCB design?
- Use 'old' spectrum PCB?
- Connector technology evolution conundrum old and new

.....The fundamental form of the product is driven by these choices

- The thinnest possible solution – a primary Sinclair design objective



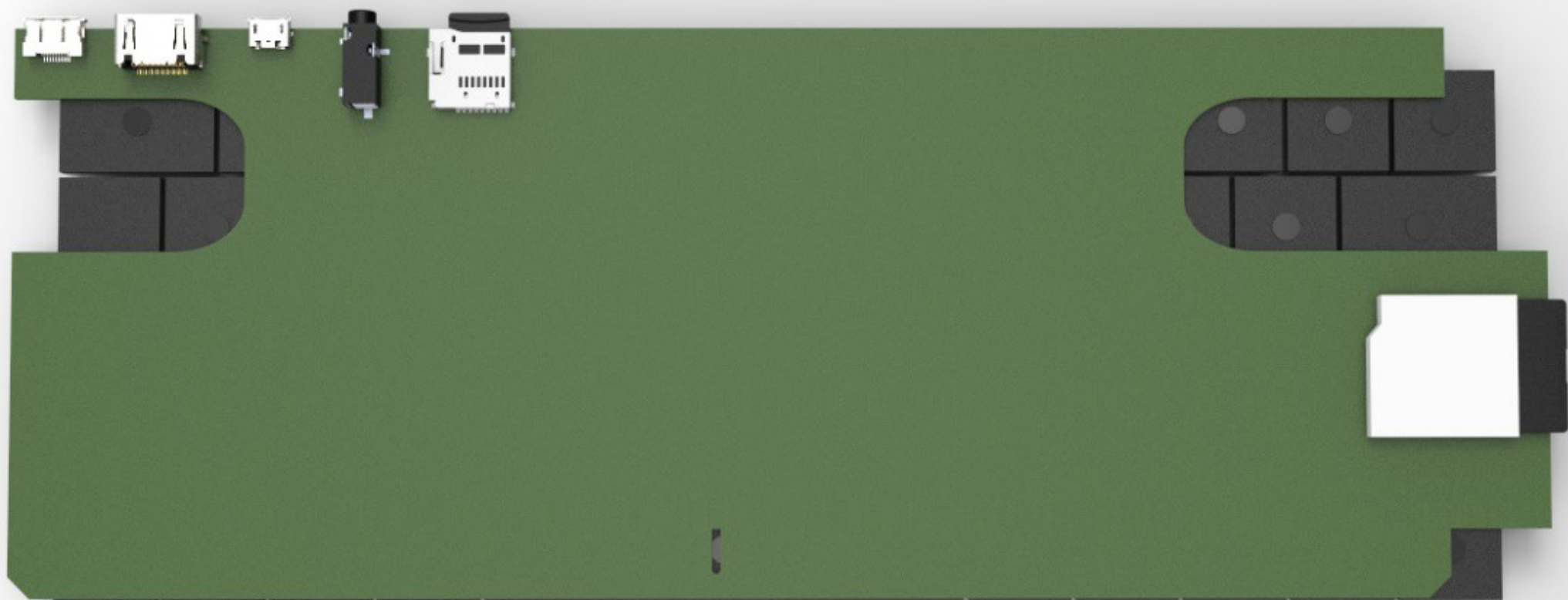




- Minimum foot print – another Sinclair design ingredient





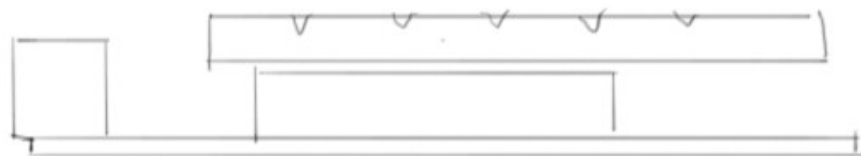




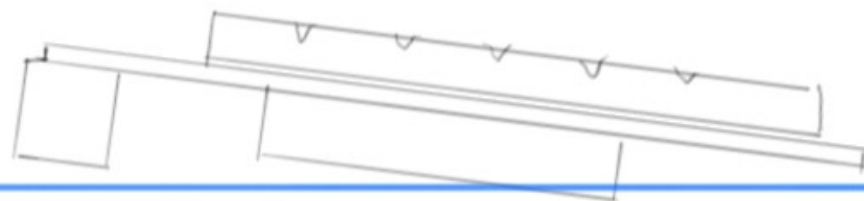


- Disguising thickness - the wedge and PCB inversion

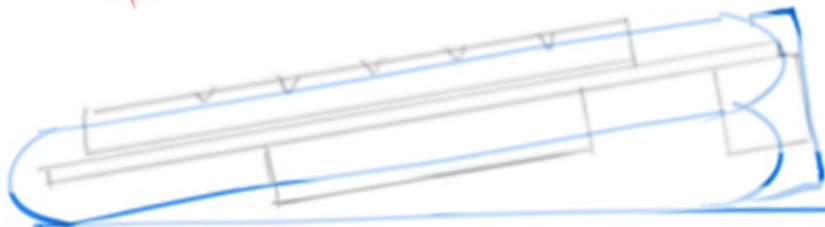
①



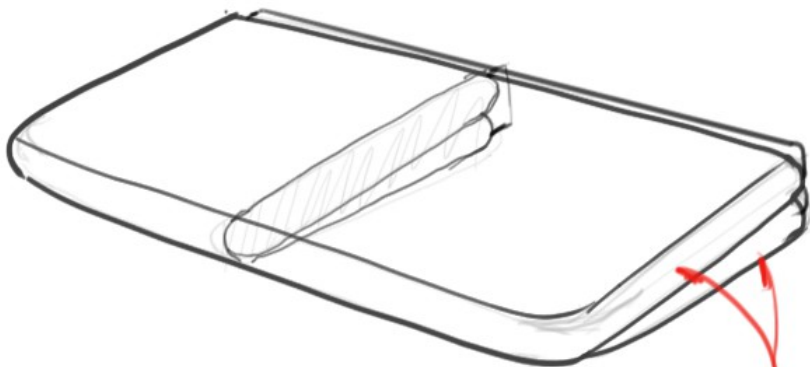
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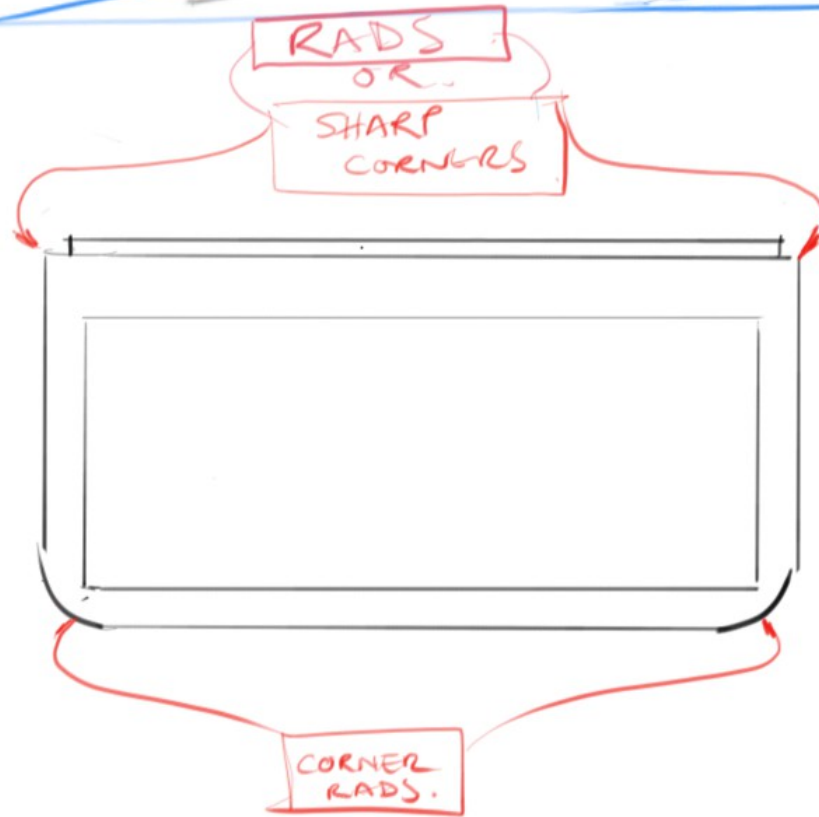
RADS @ REAR



SHARP CORNERS



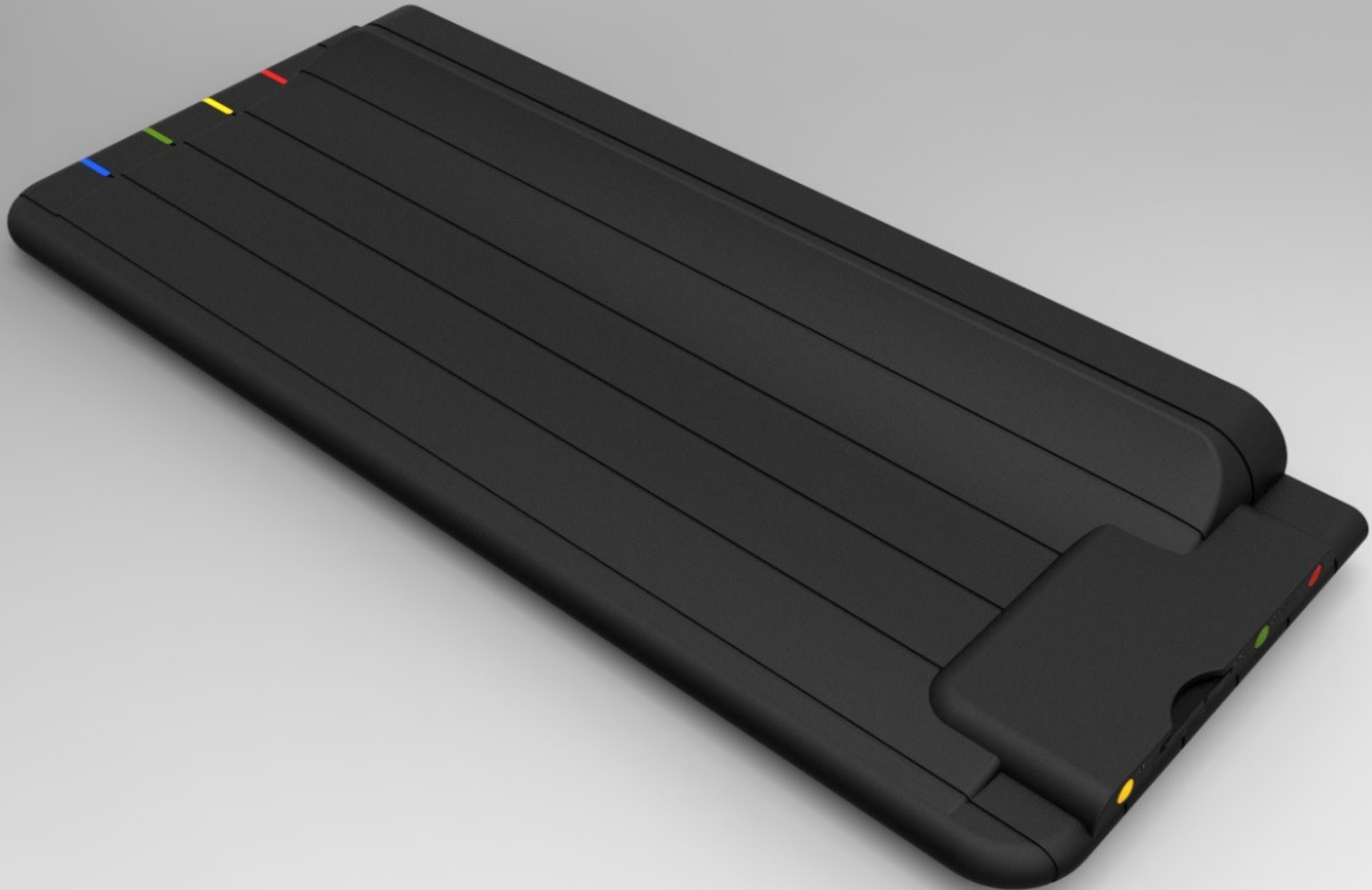
FULL RAD.















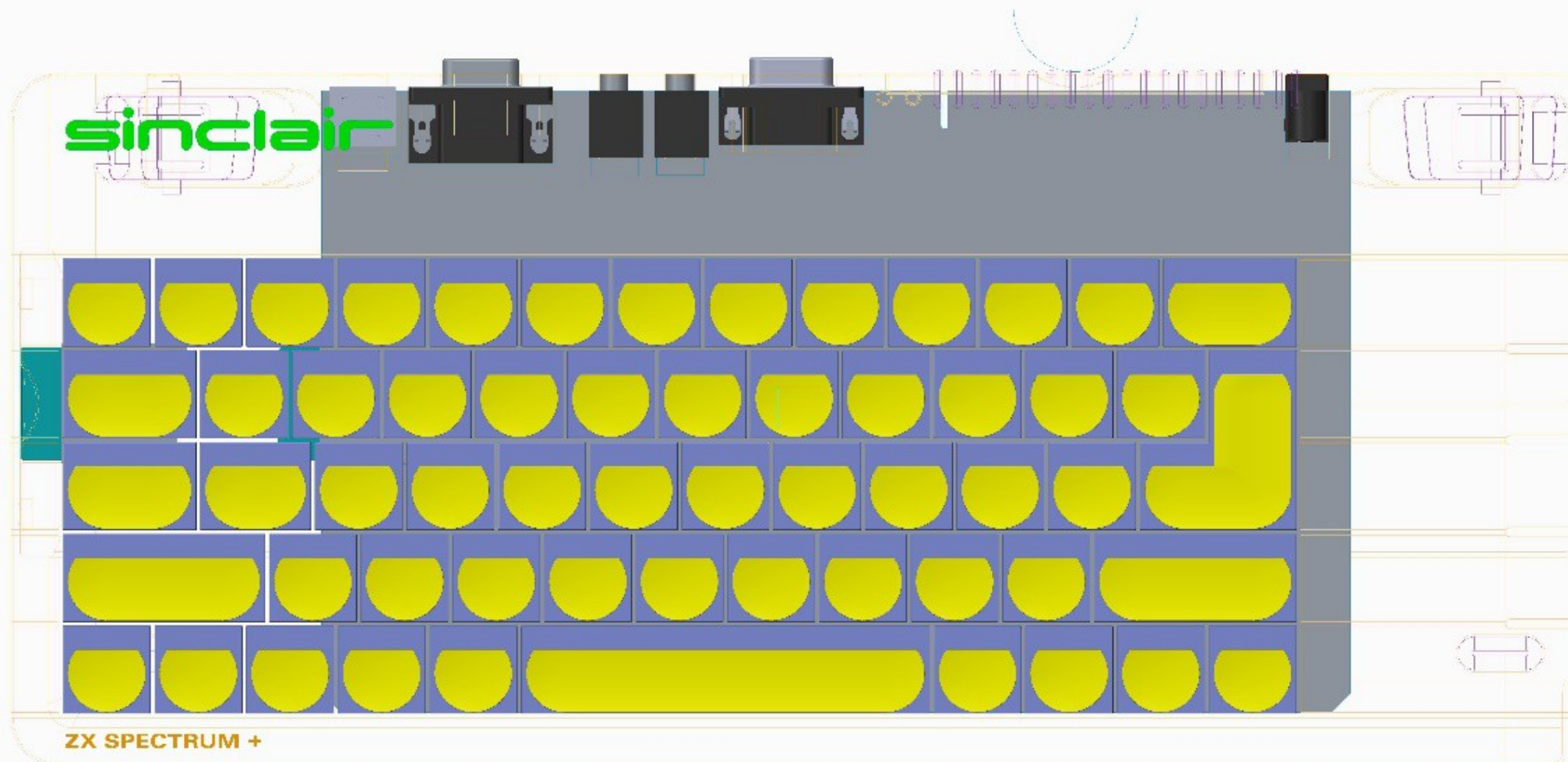
- Wedge variant





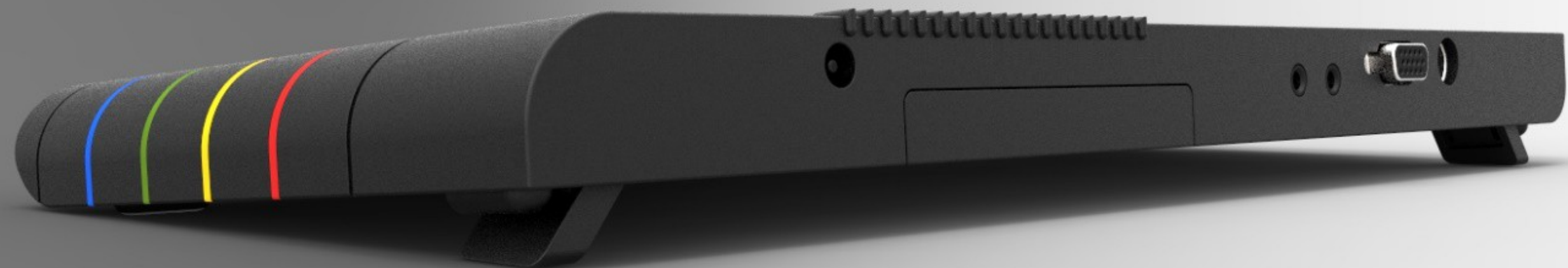


- Using the original Spectrum PCB



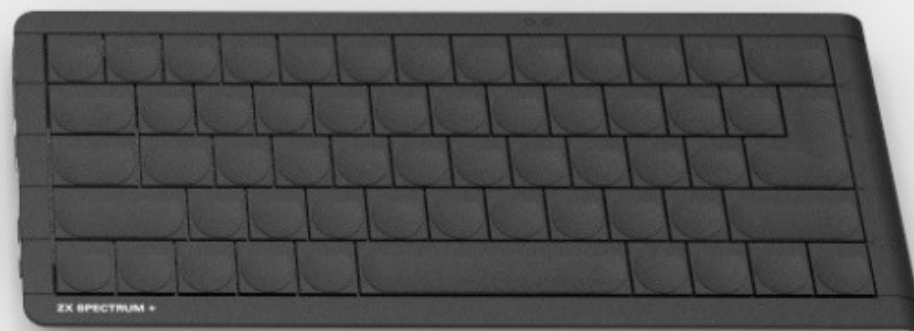








- Down selection





















CAPS SHIFT

SYMBOL
SHIFT

ZX SPECTRUM+

Siriusair

TRUE
VIDEO

INV
VIDEO

BLUE
DEF FN

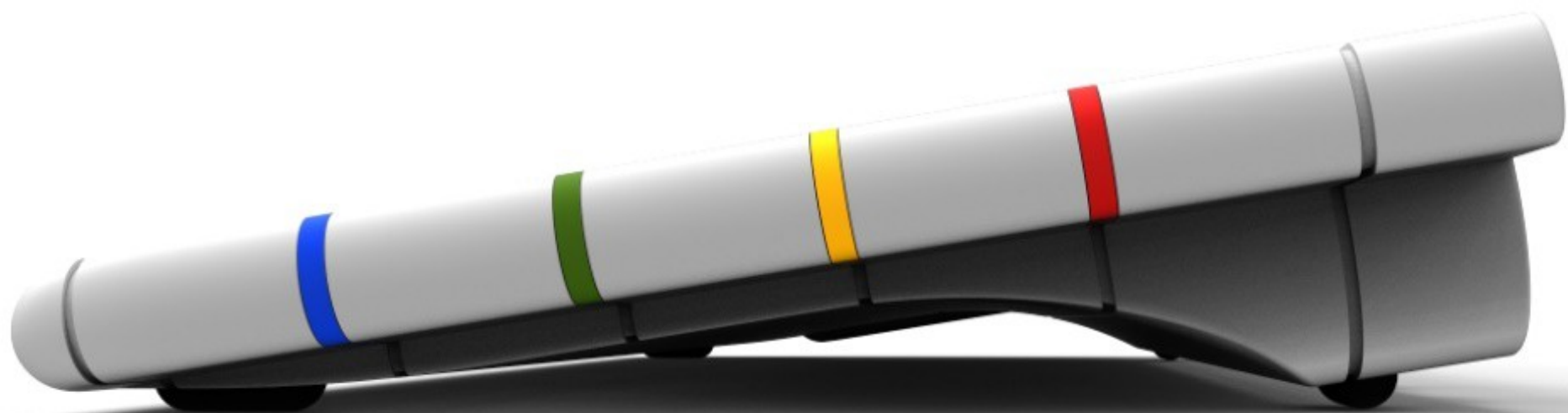
RED
FN

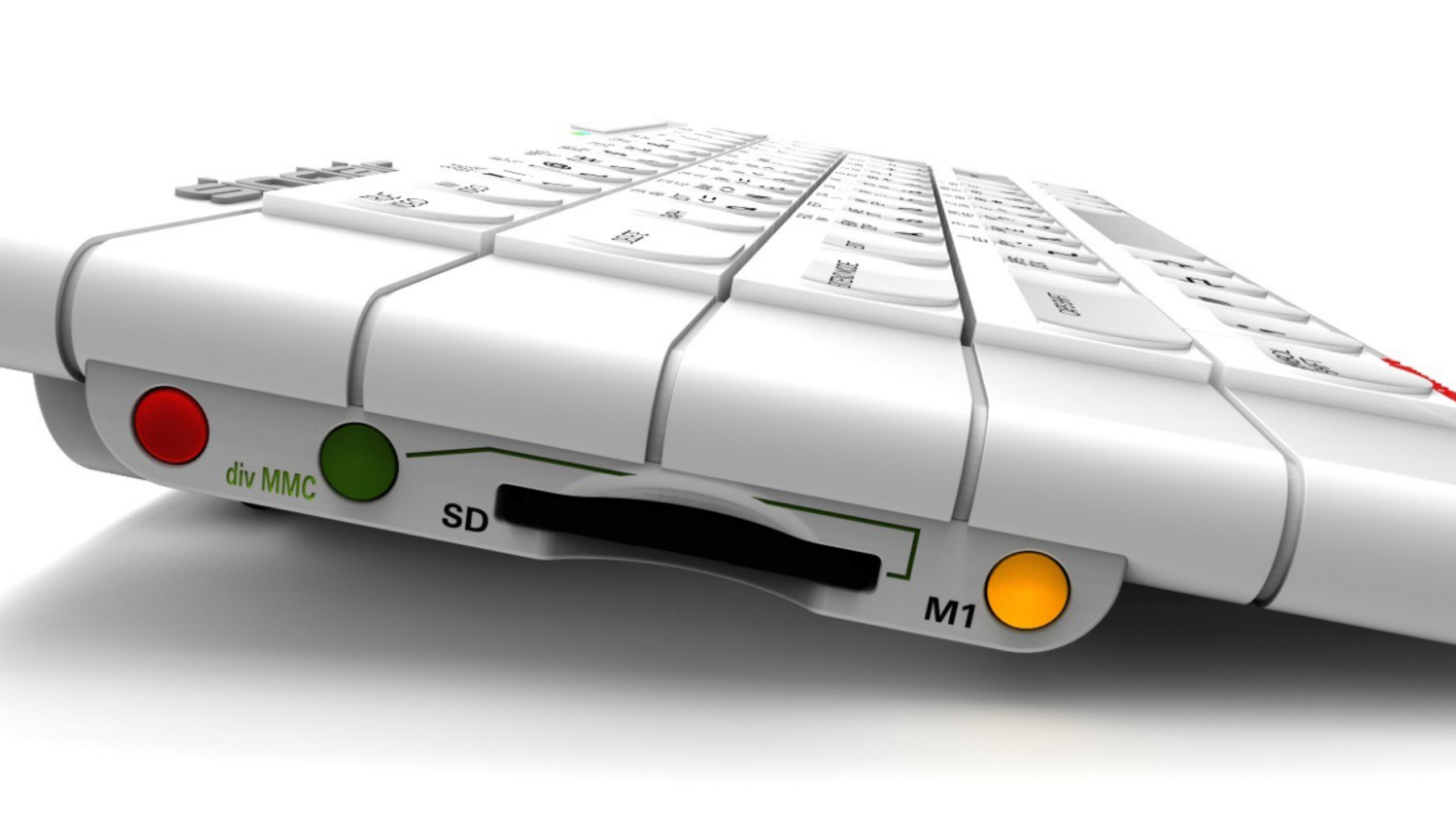


@

2

GRAPH













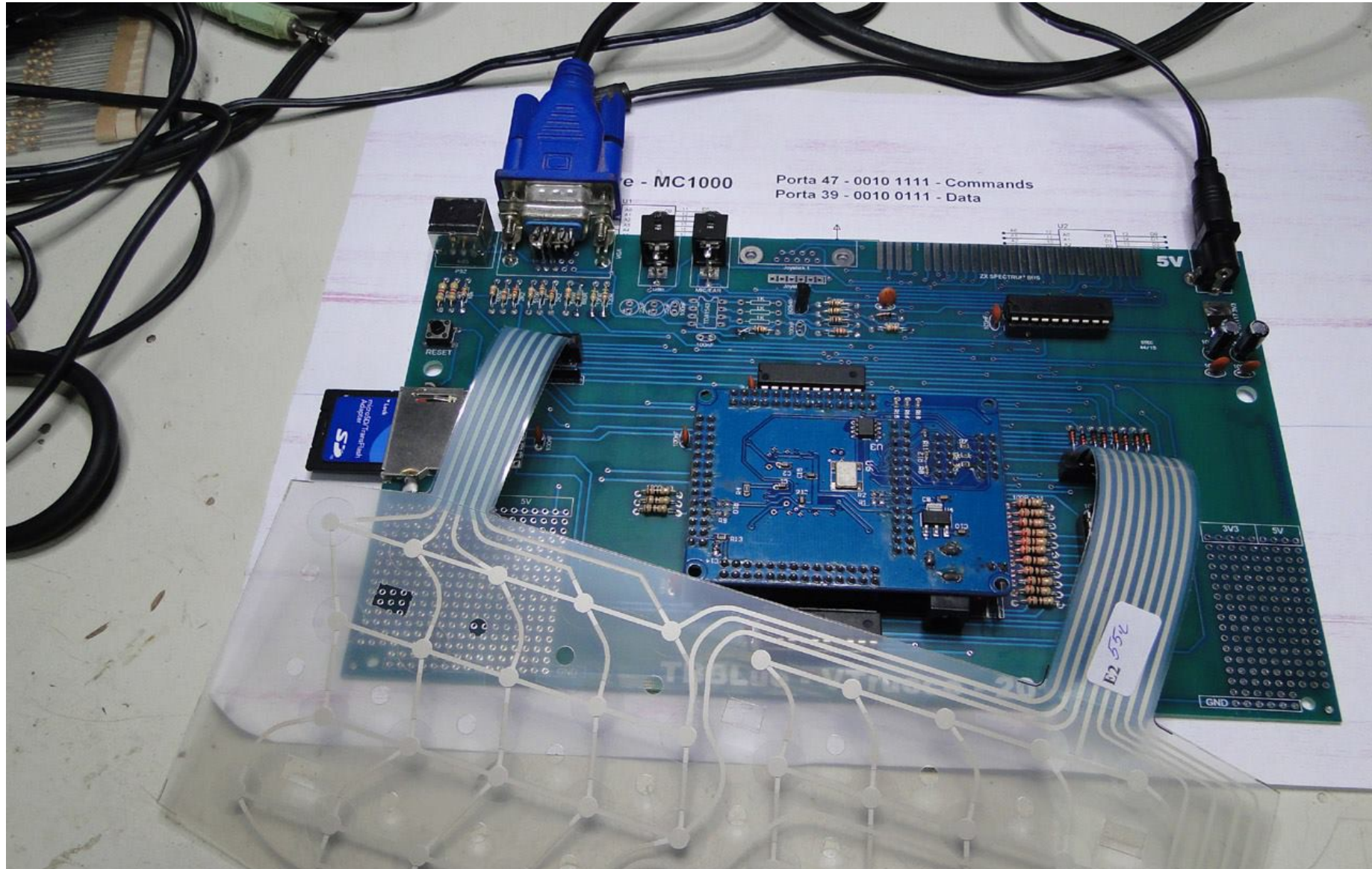




Final concept selected

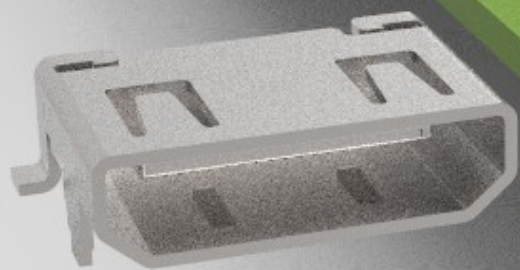


and going with original Spectrum PCB profile

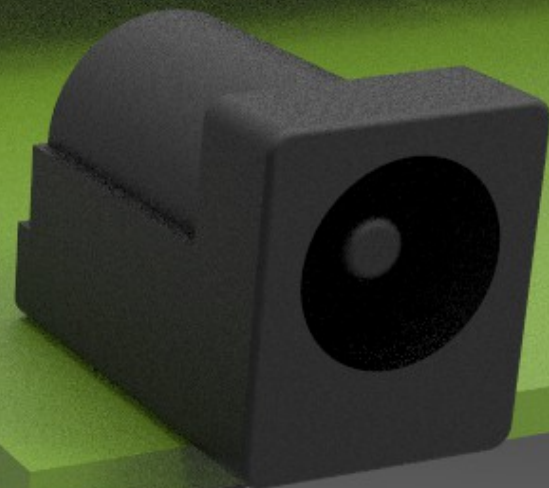




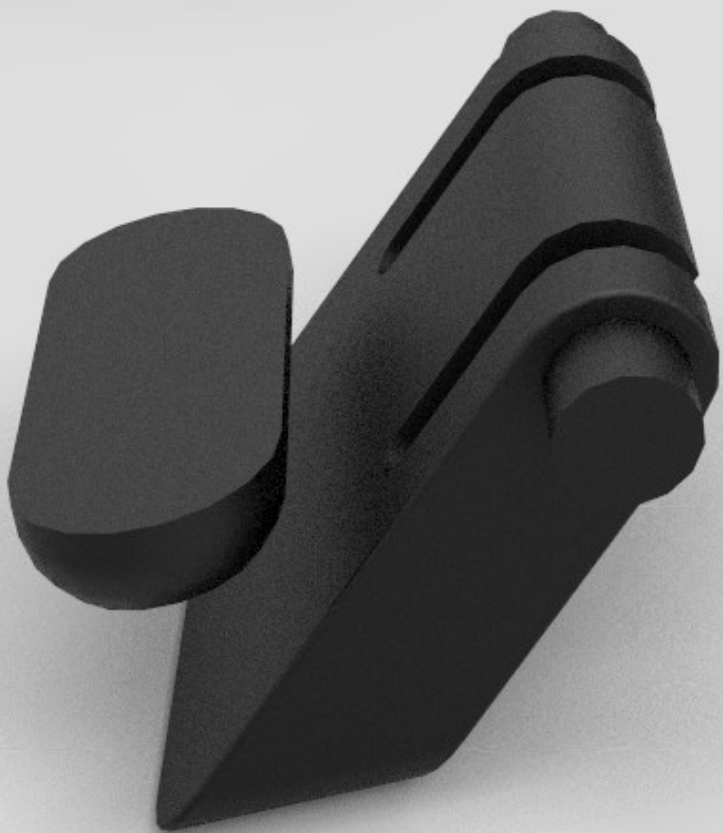


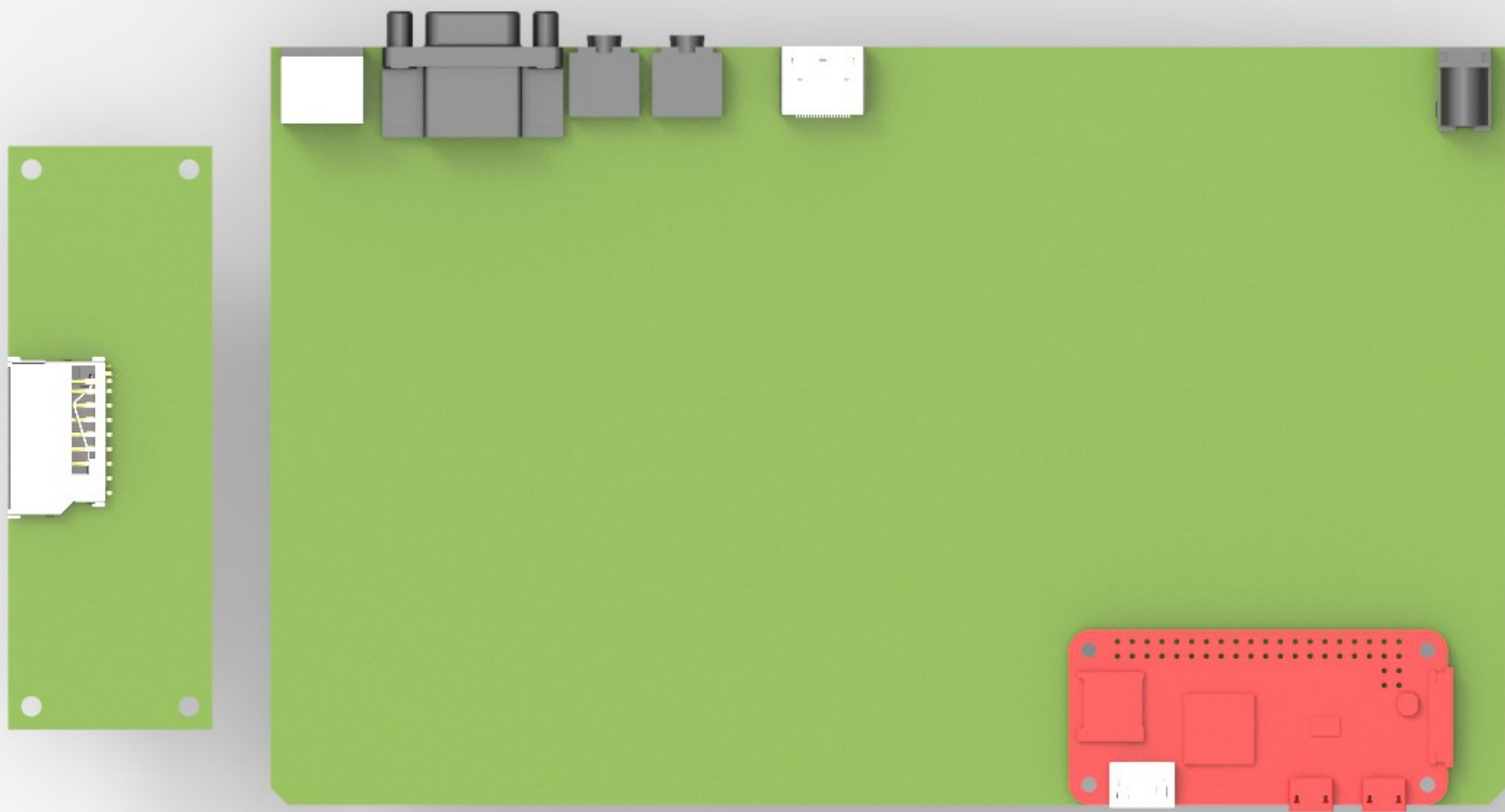


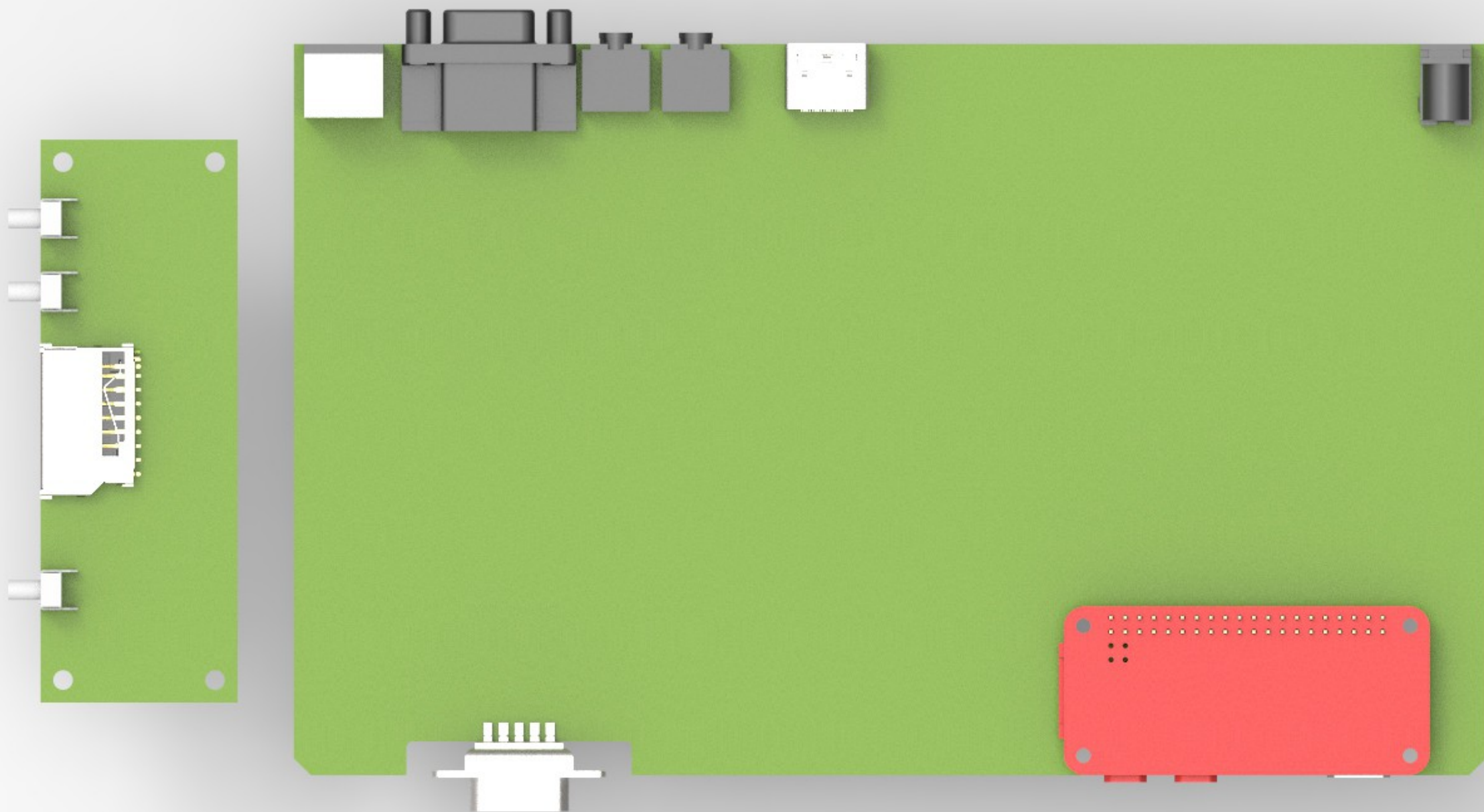
HDMI

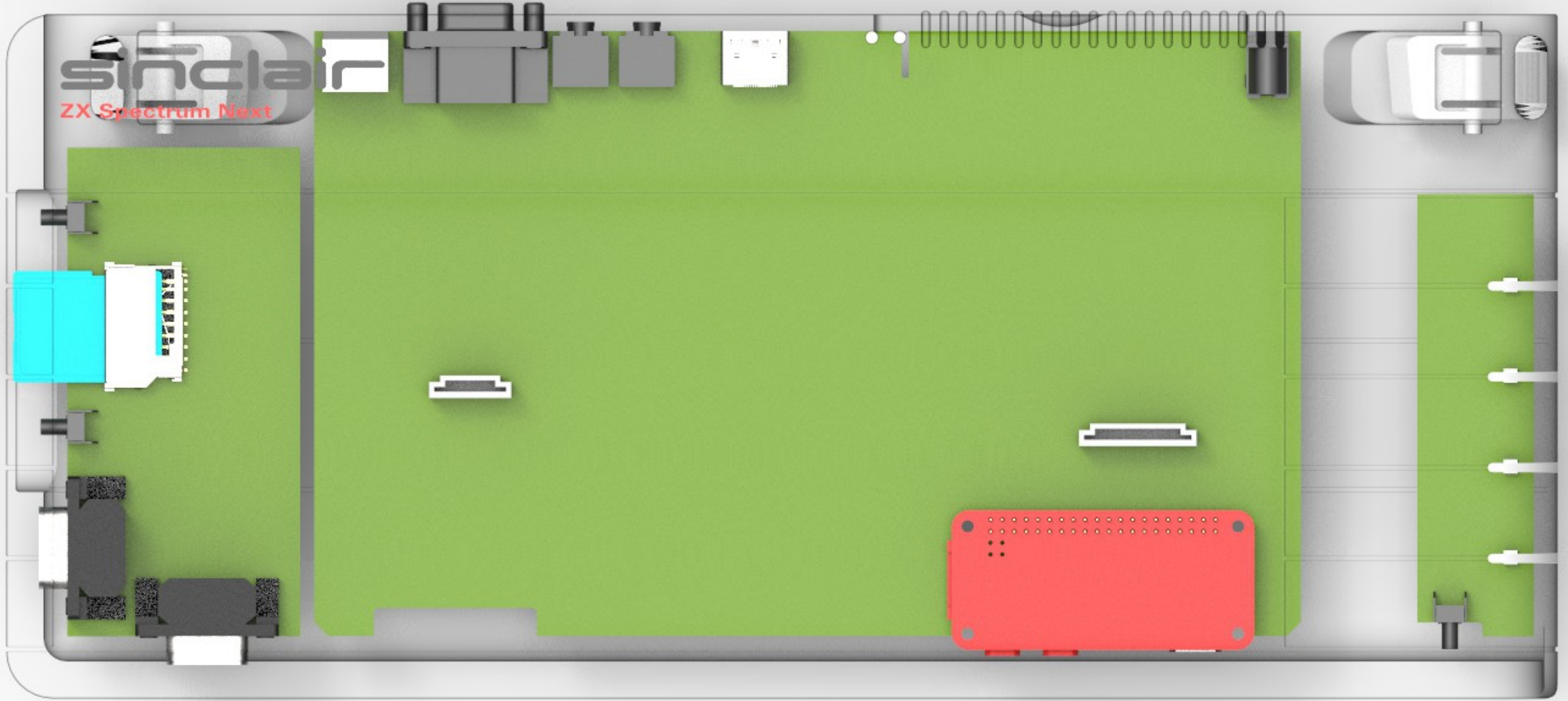


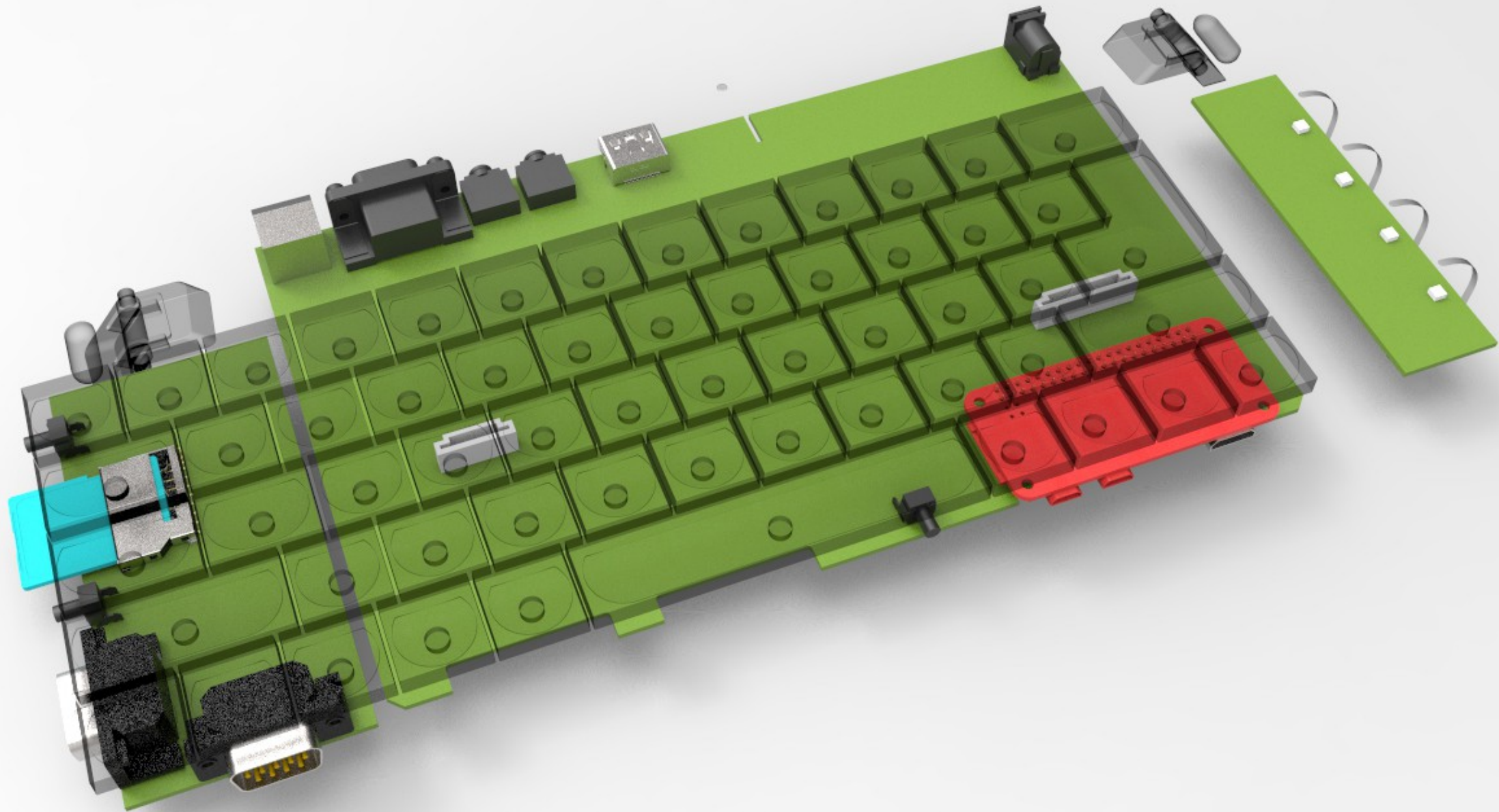
Power

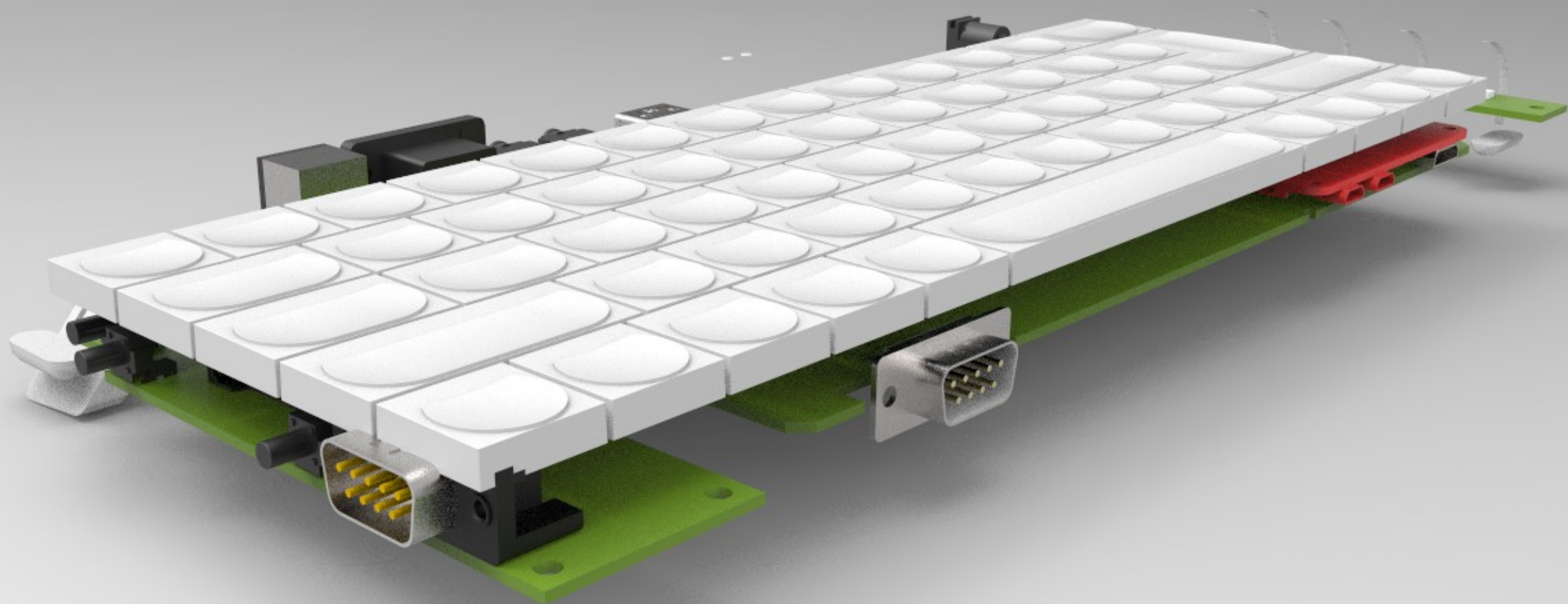


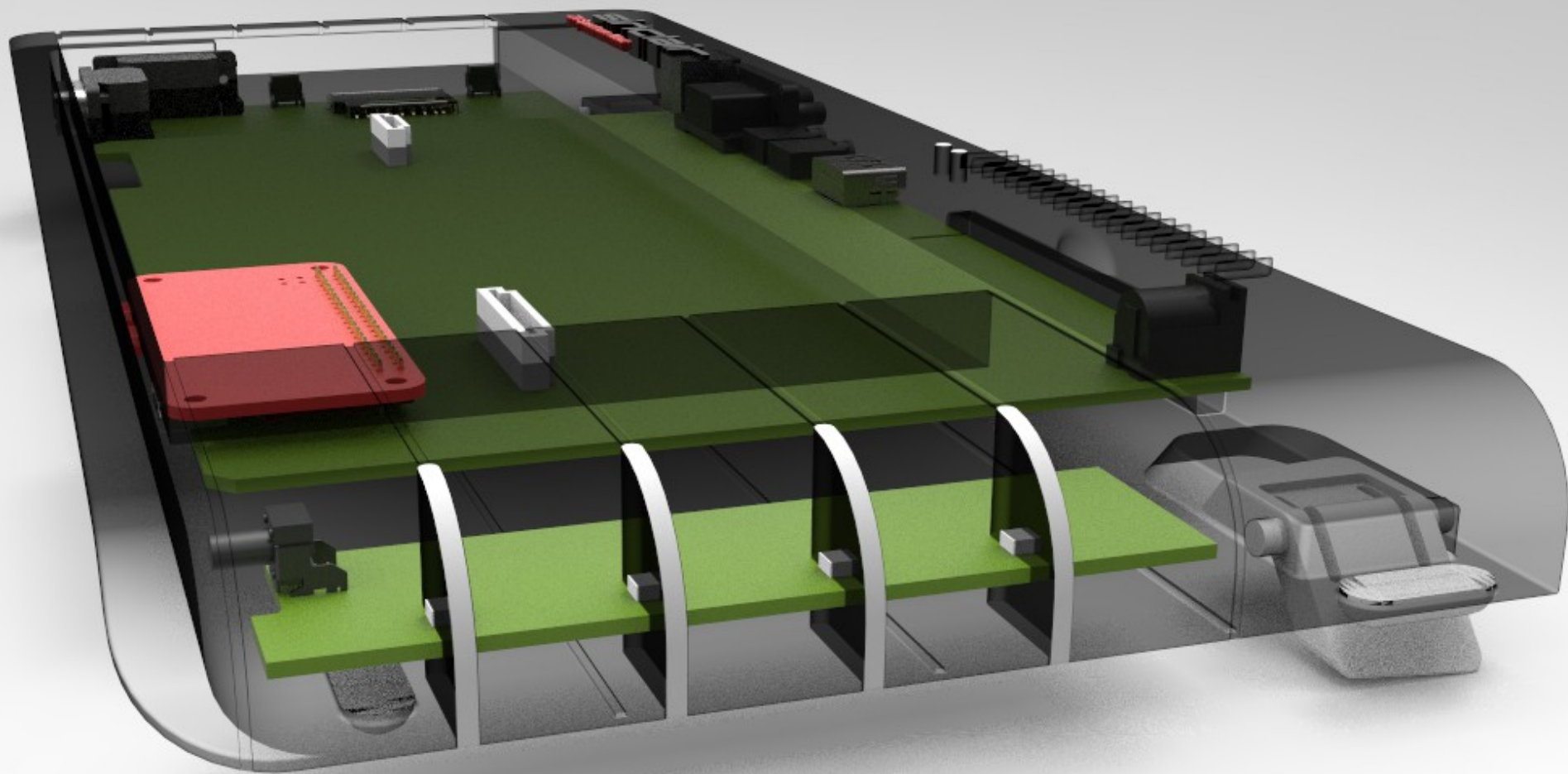


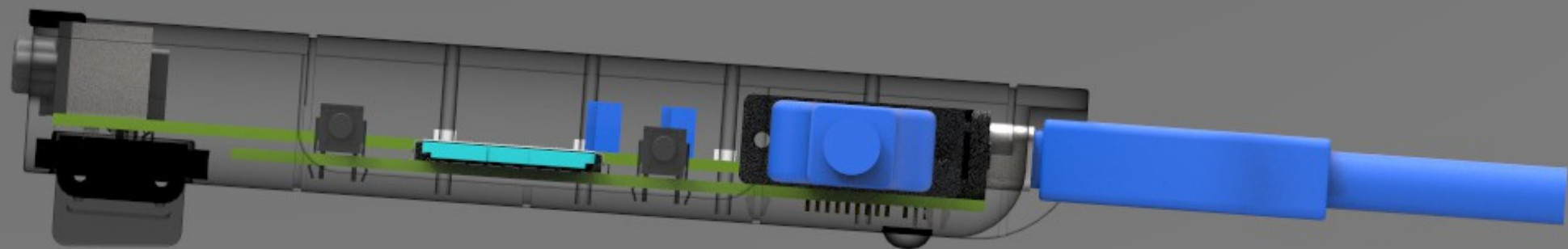


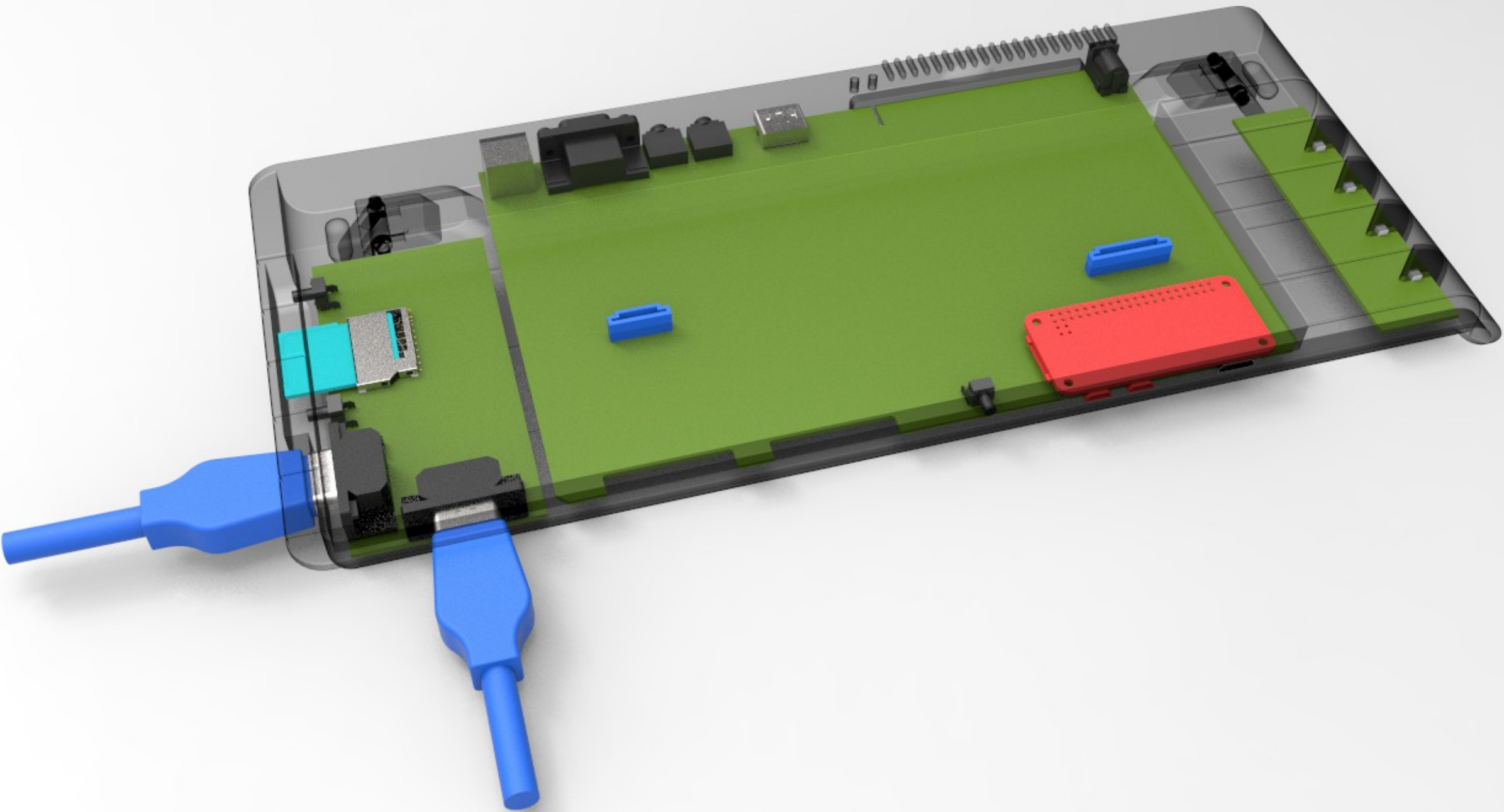


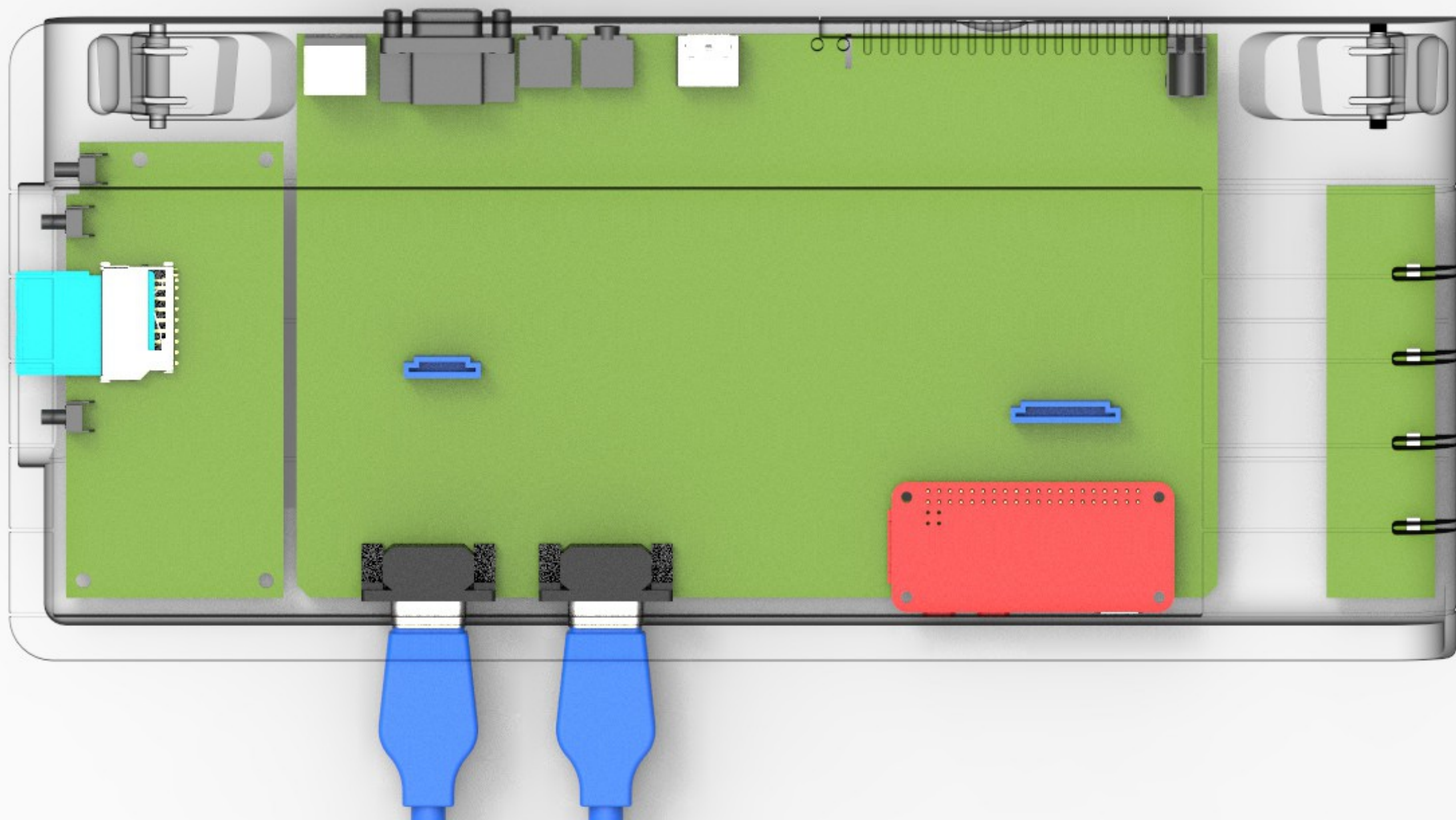


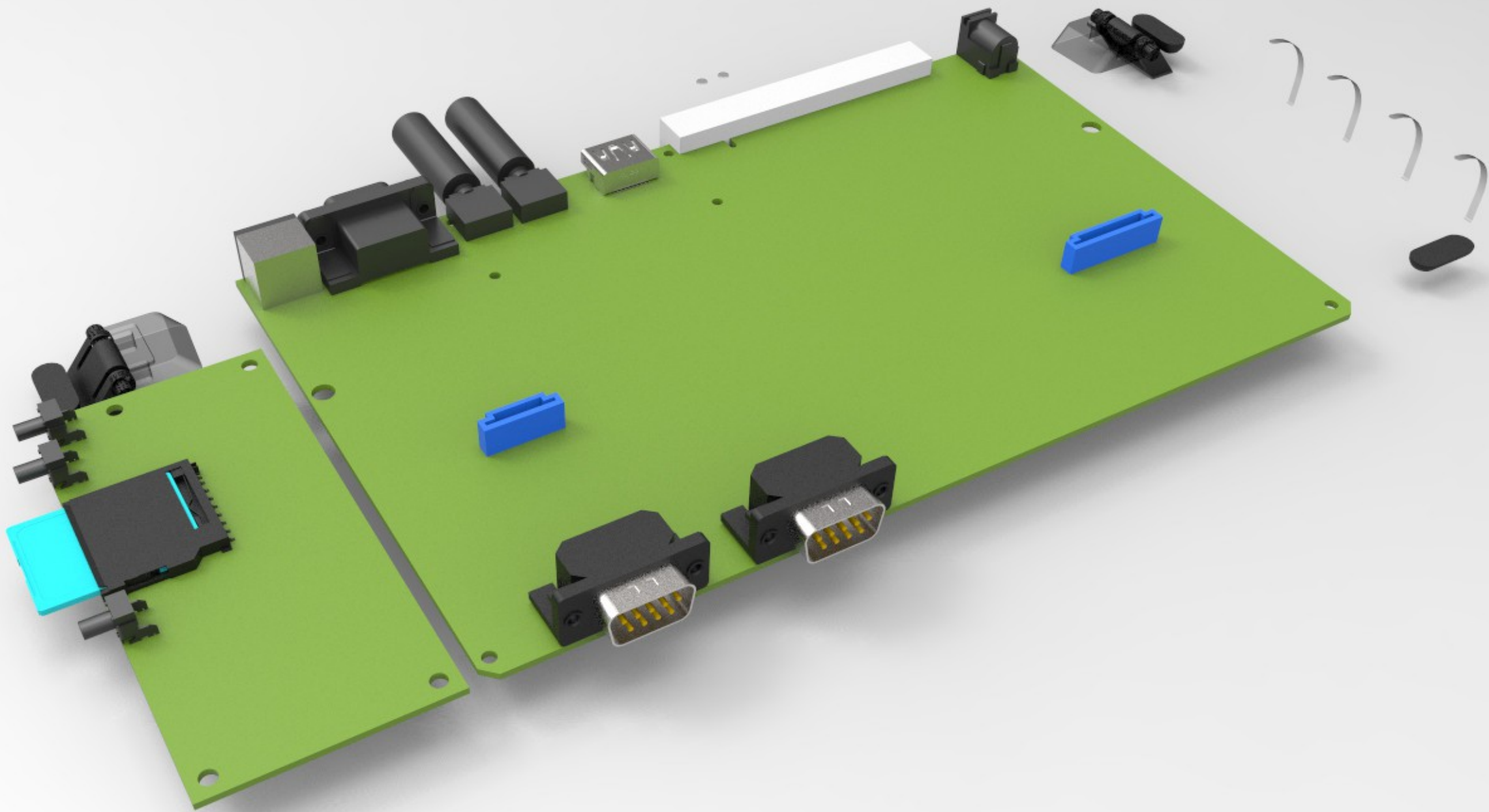


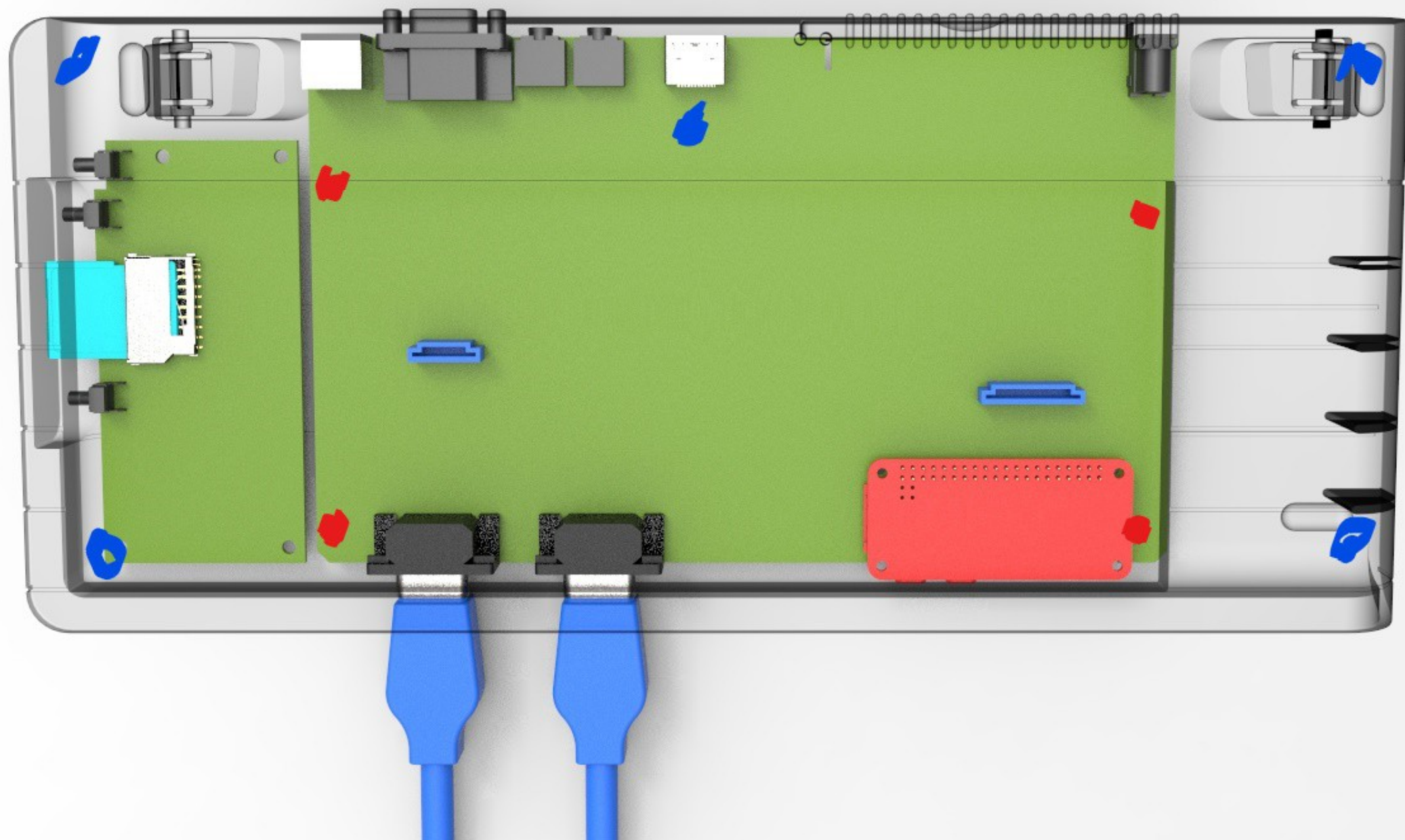


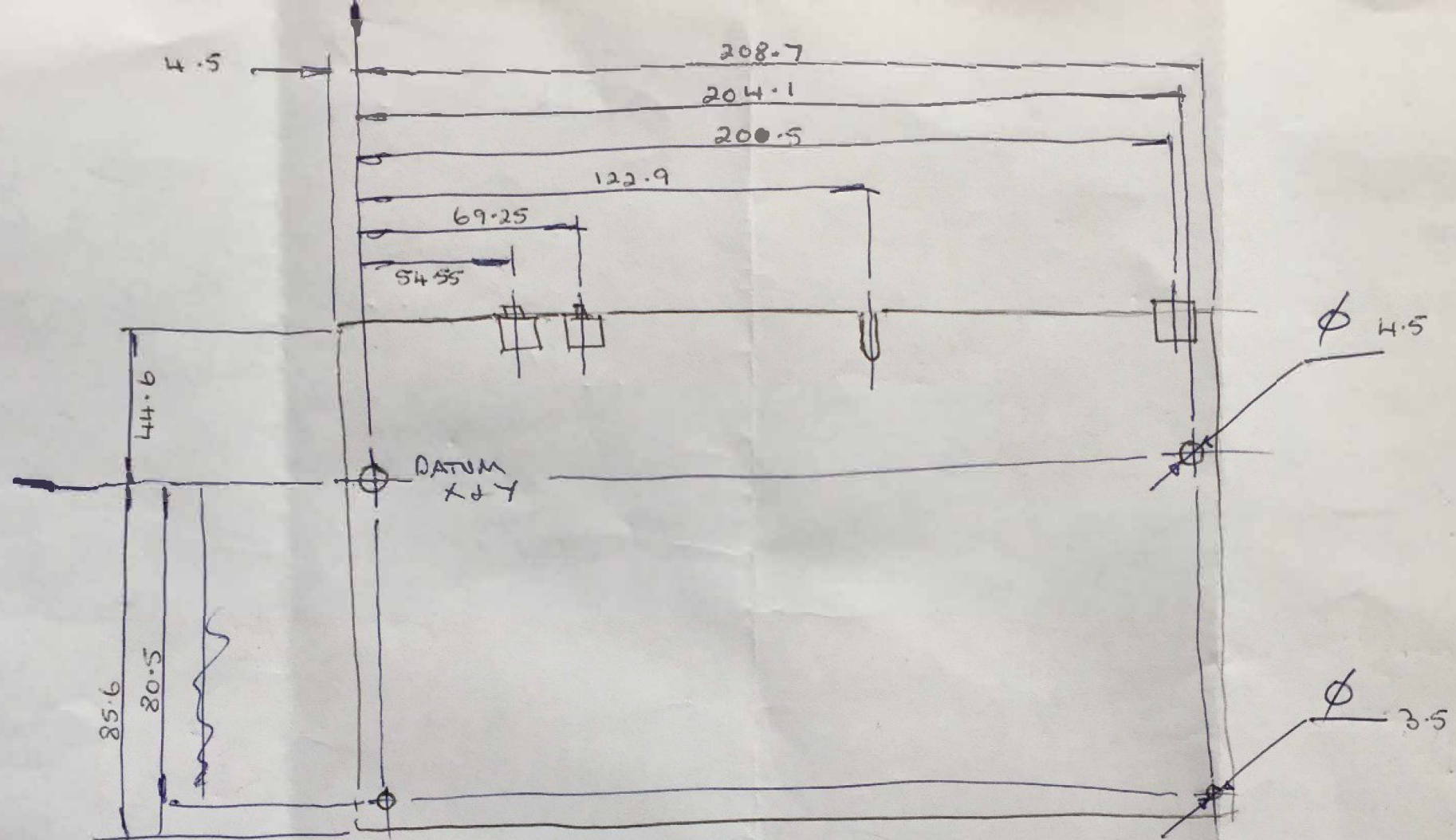




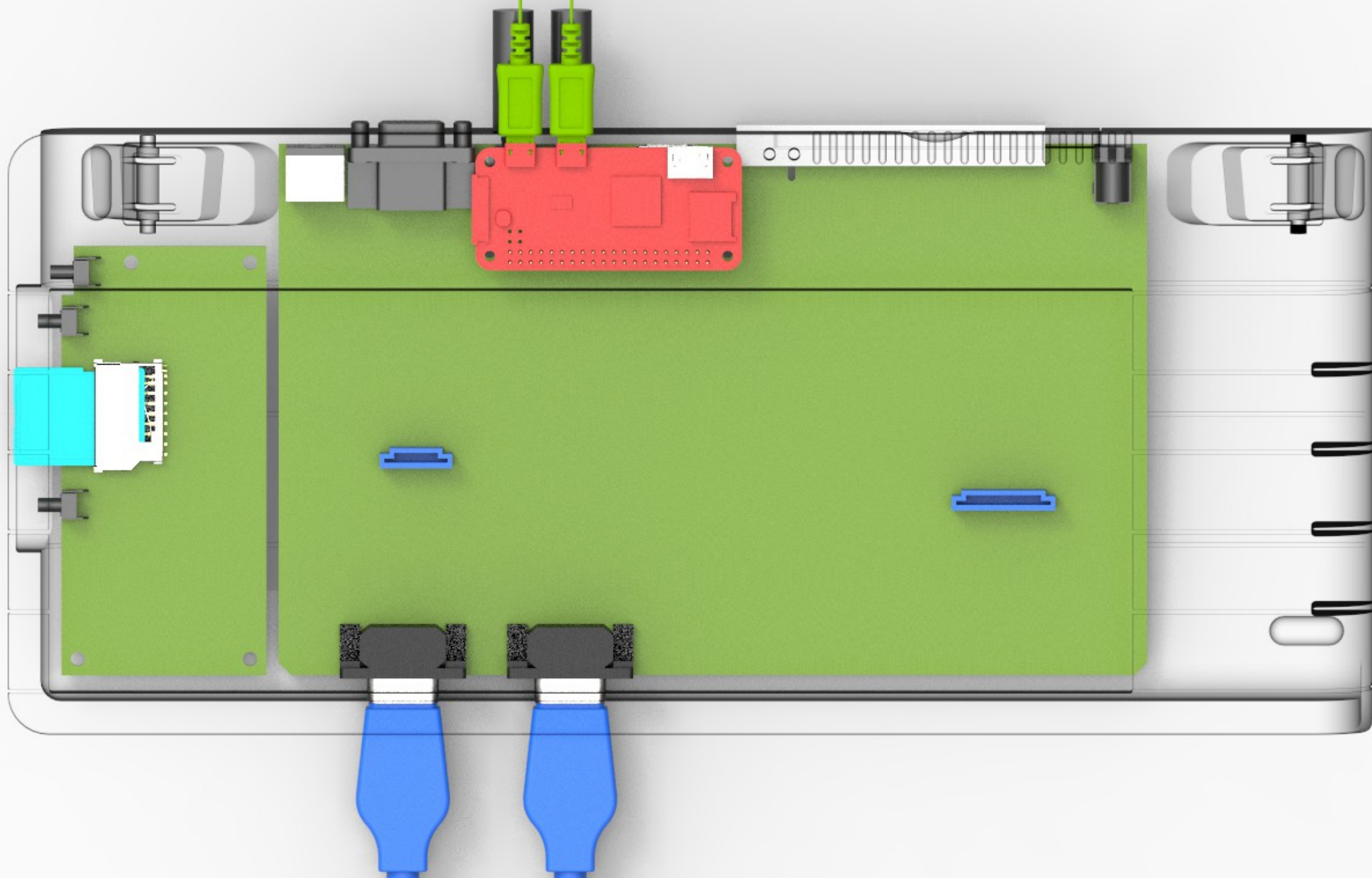


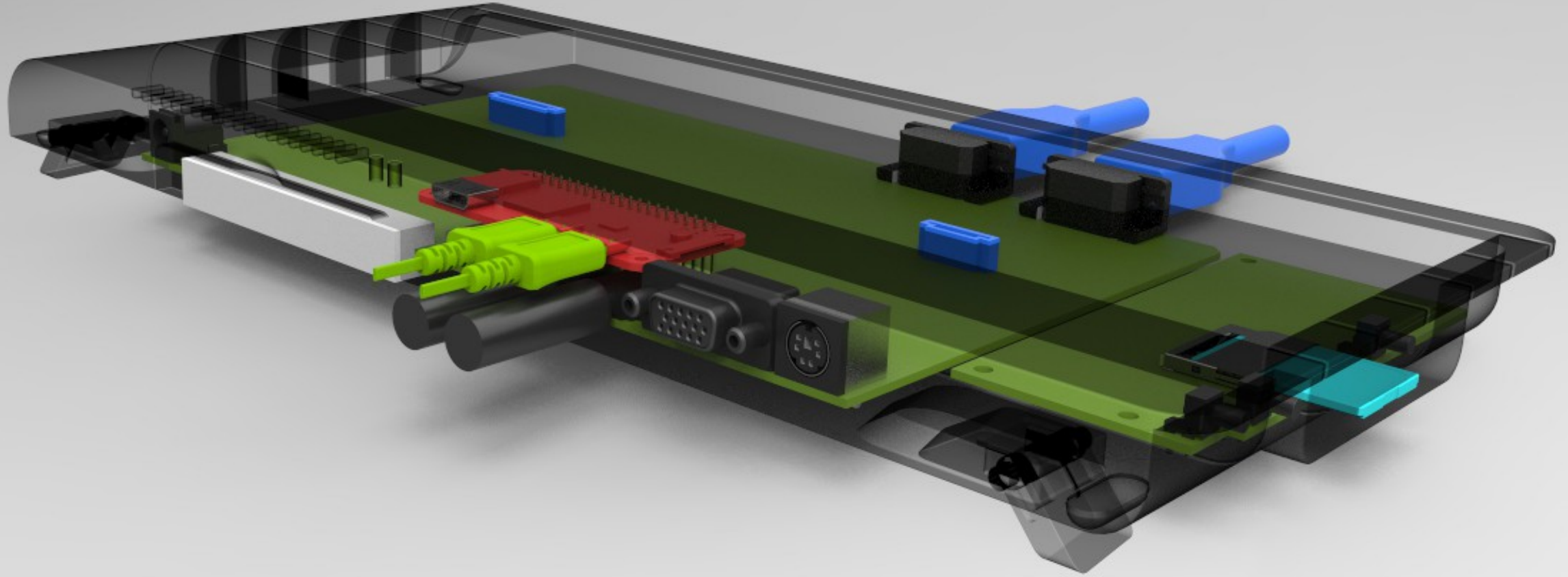


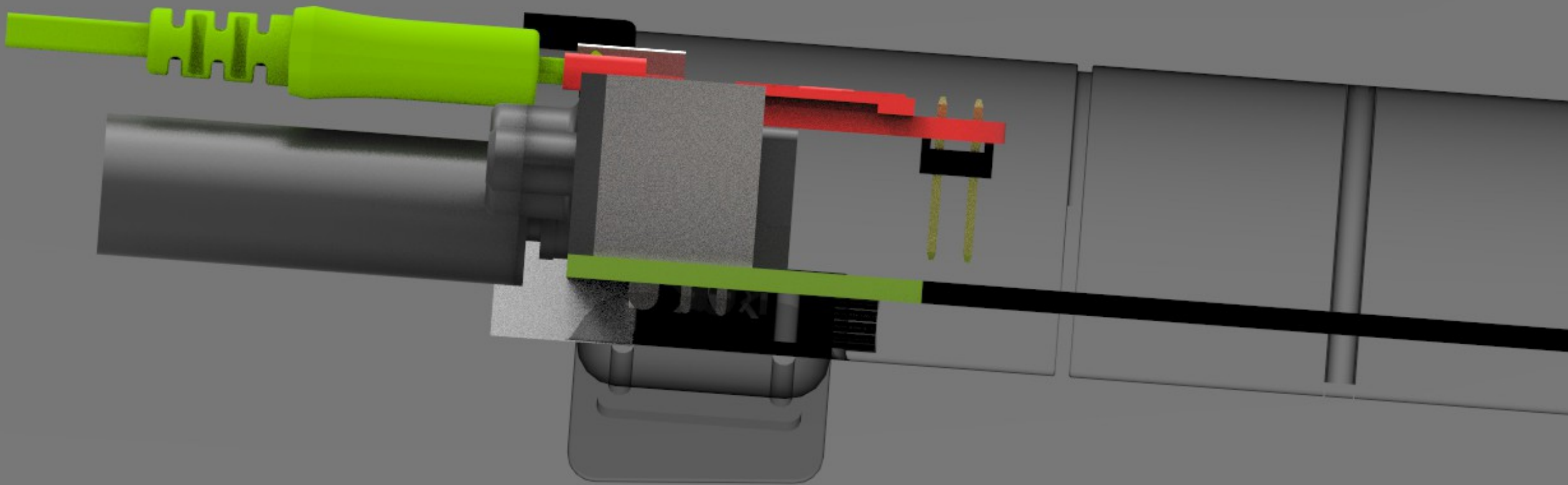


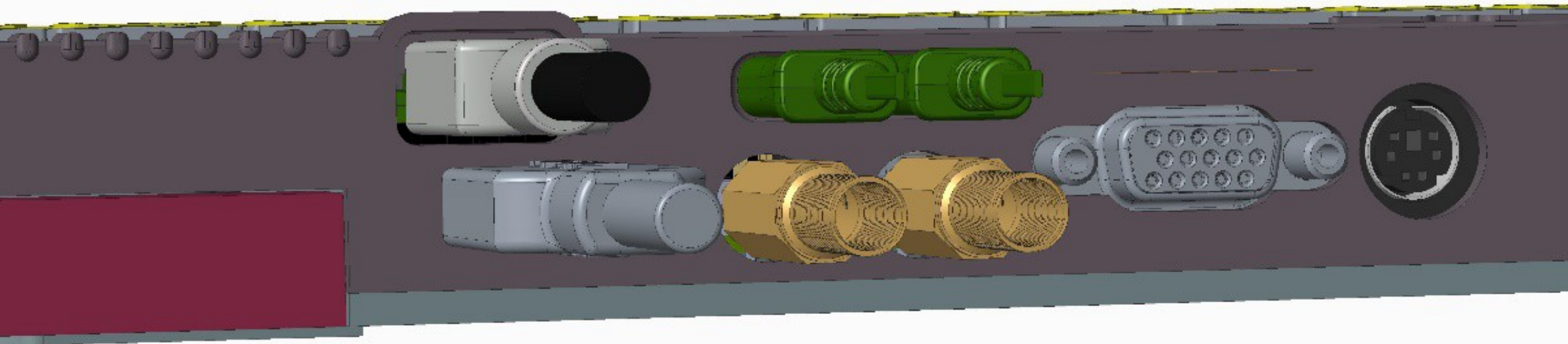


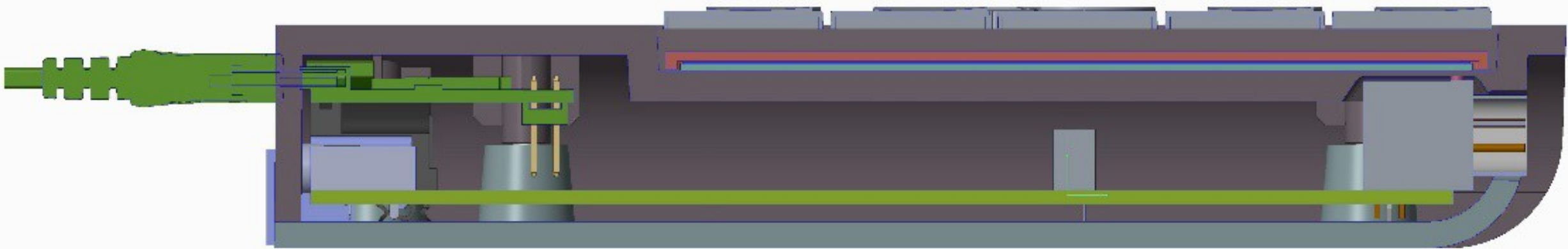
Requires dimensions
112 mm ± 0.1



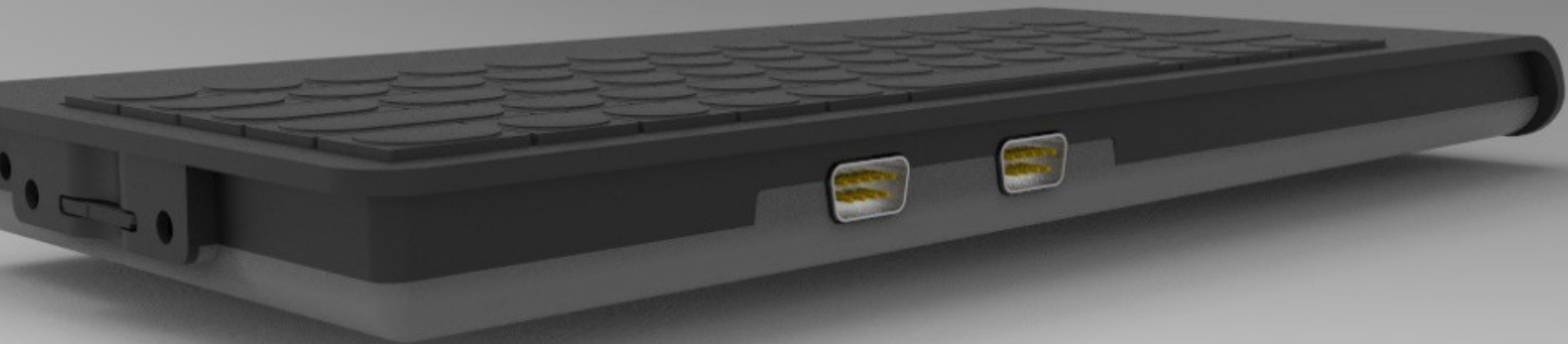


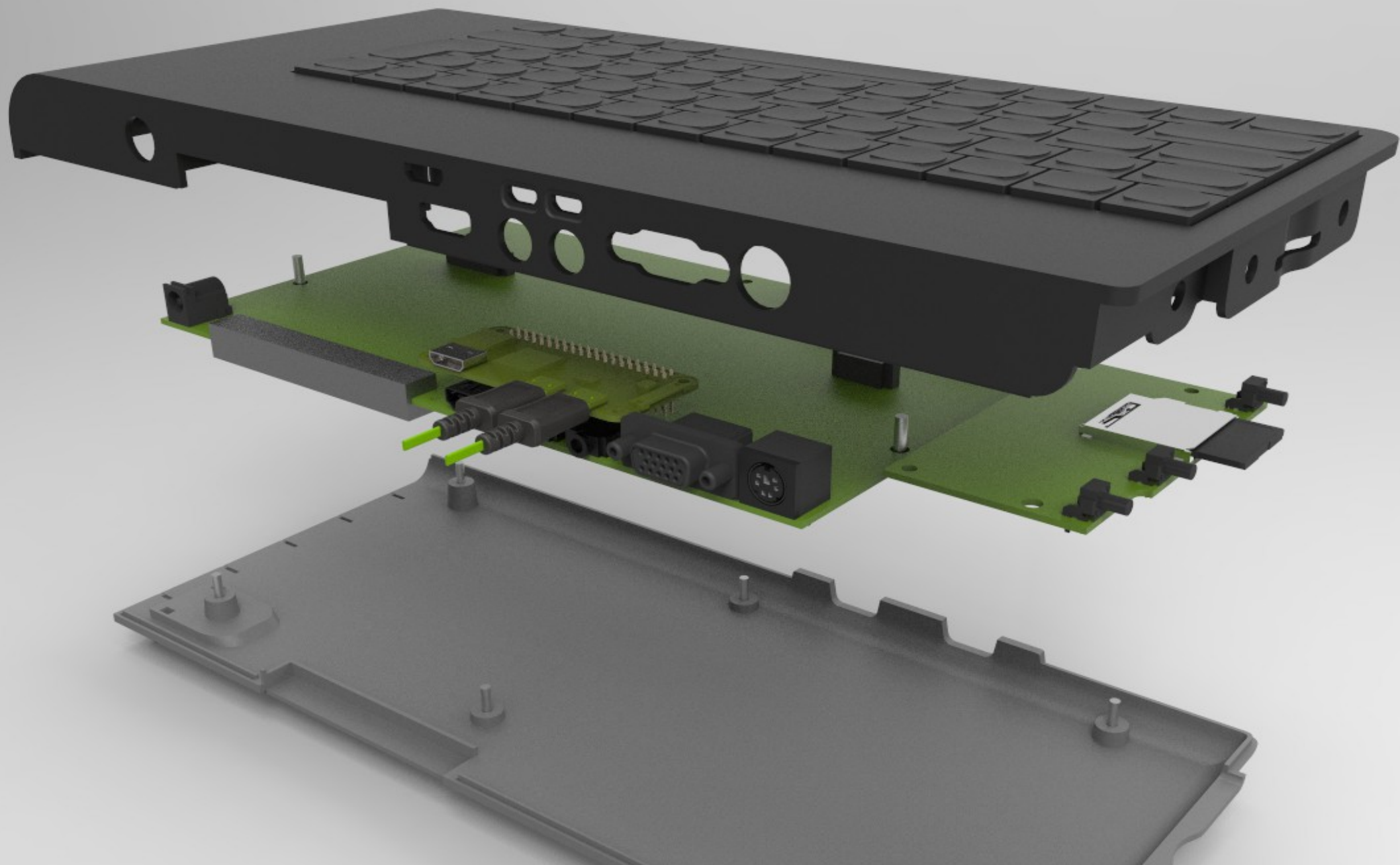


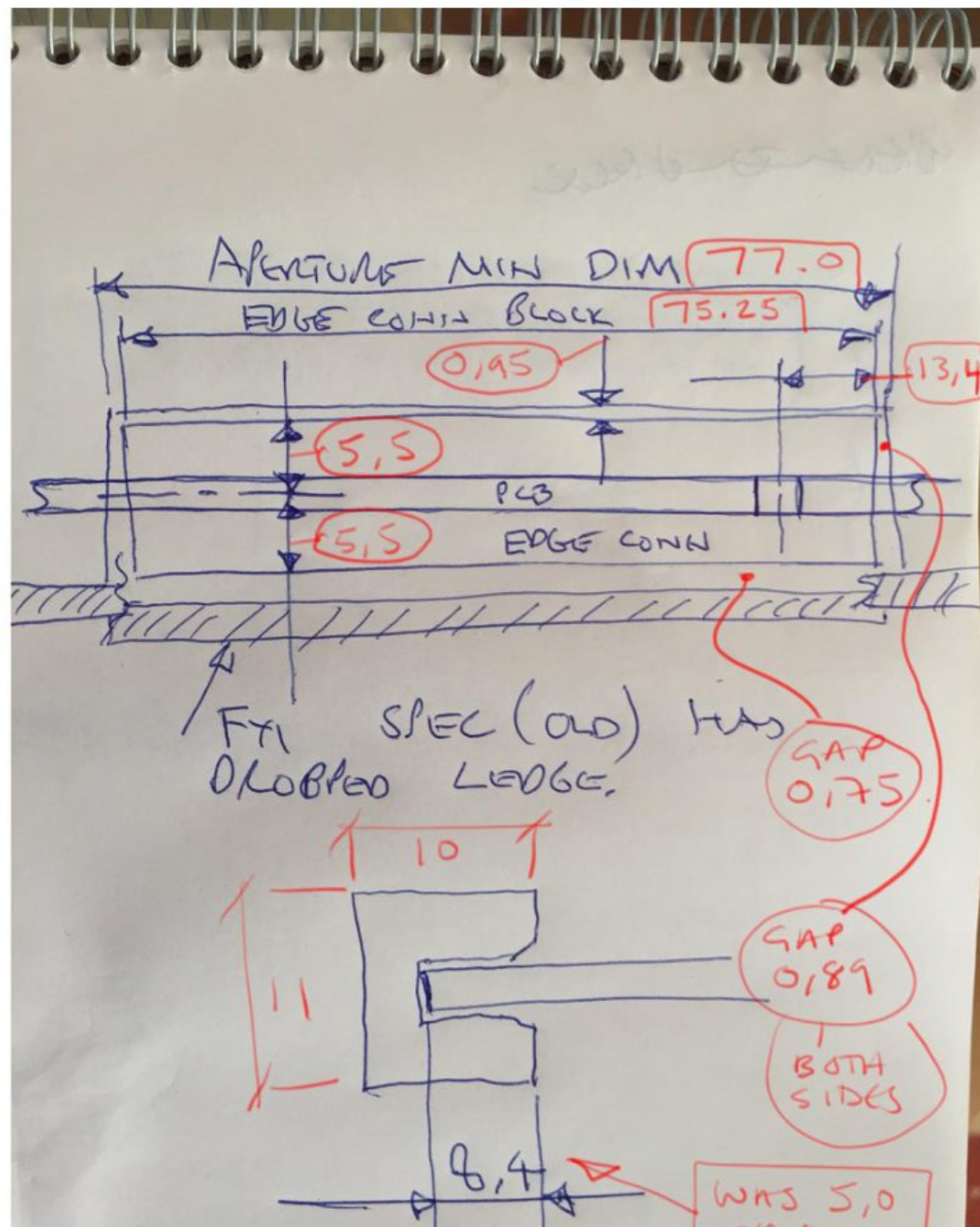


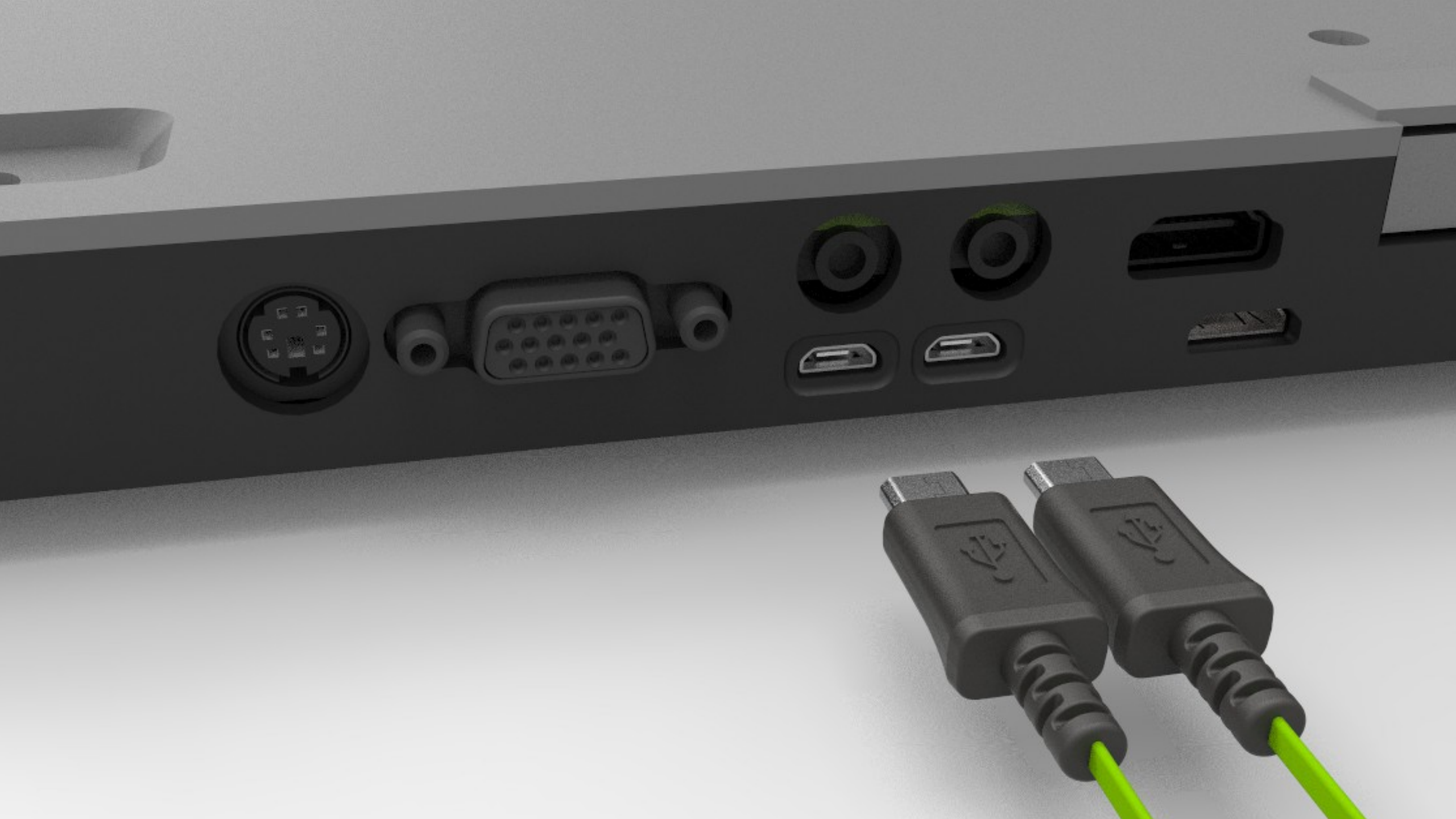


Clipping State:XSEC0002



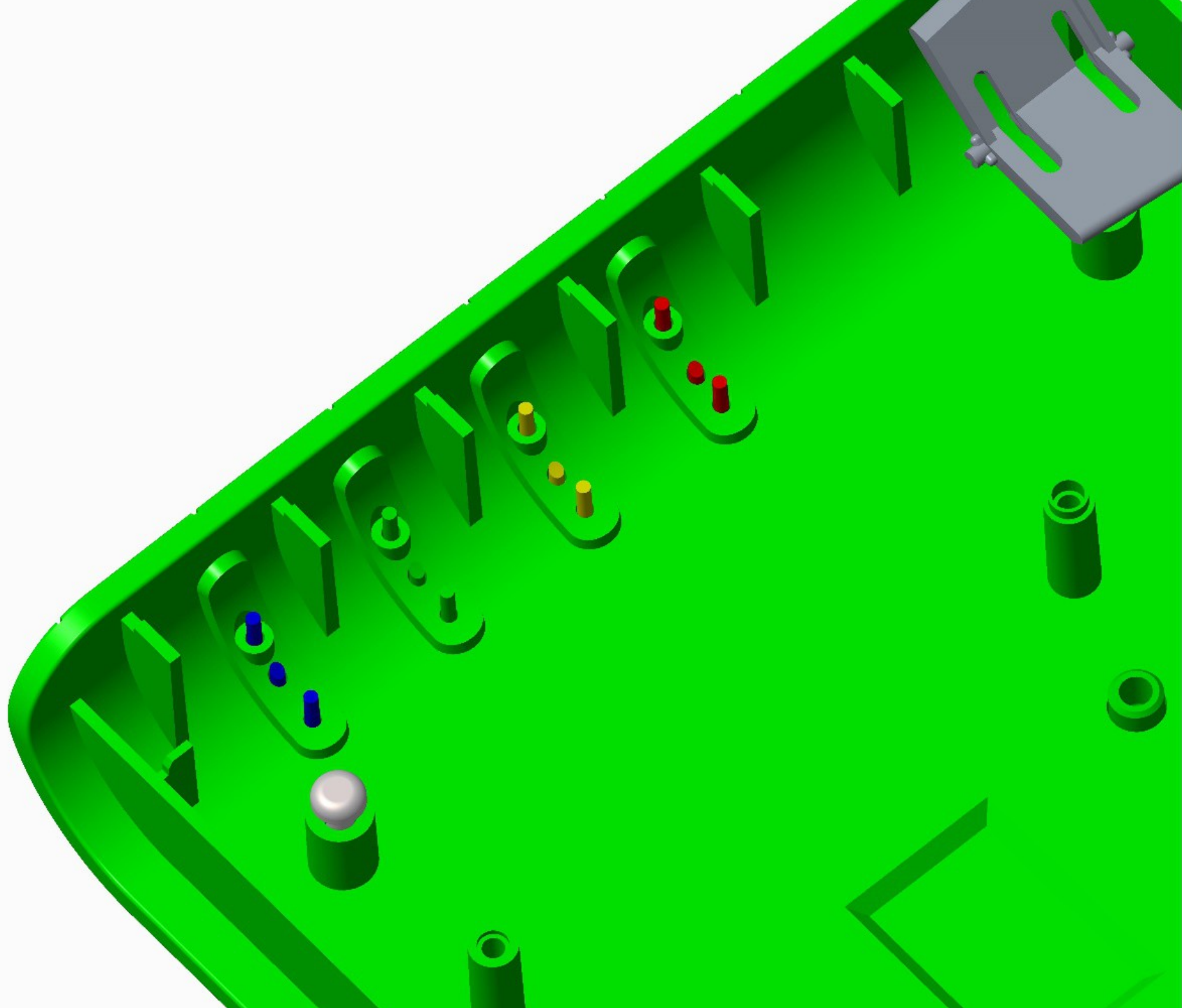


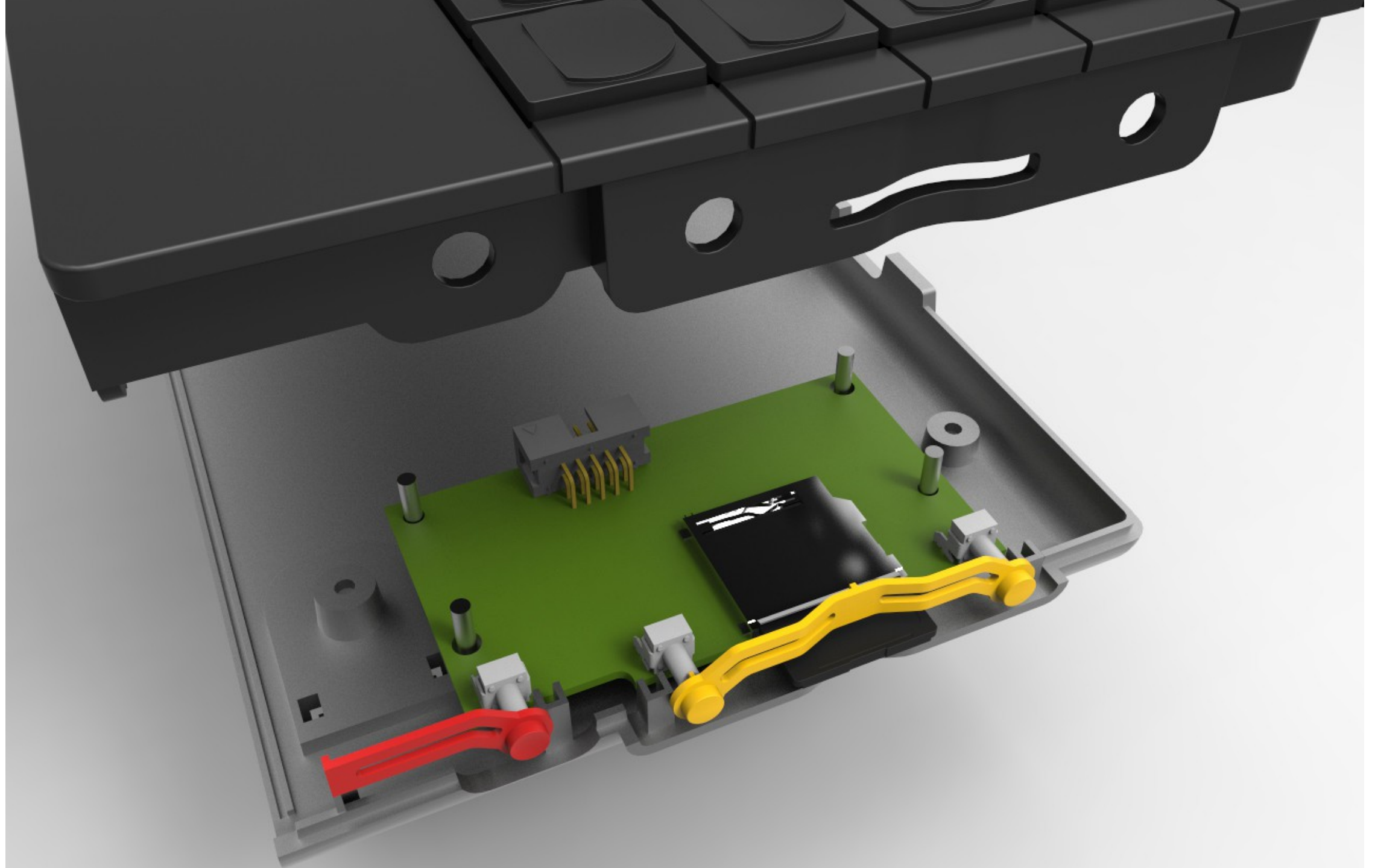


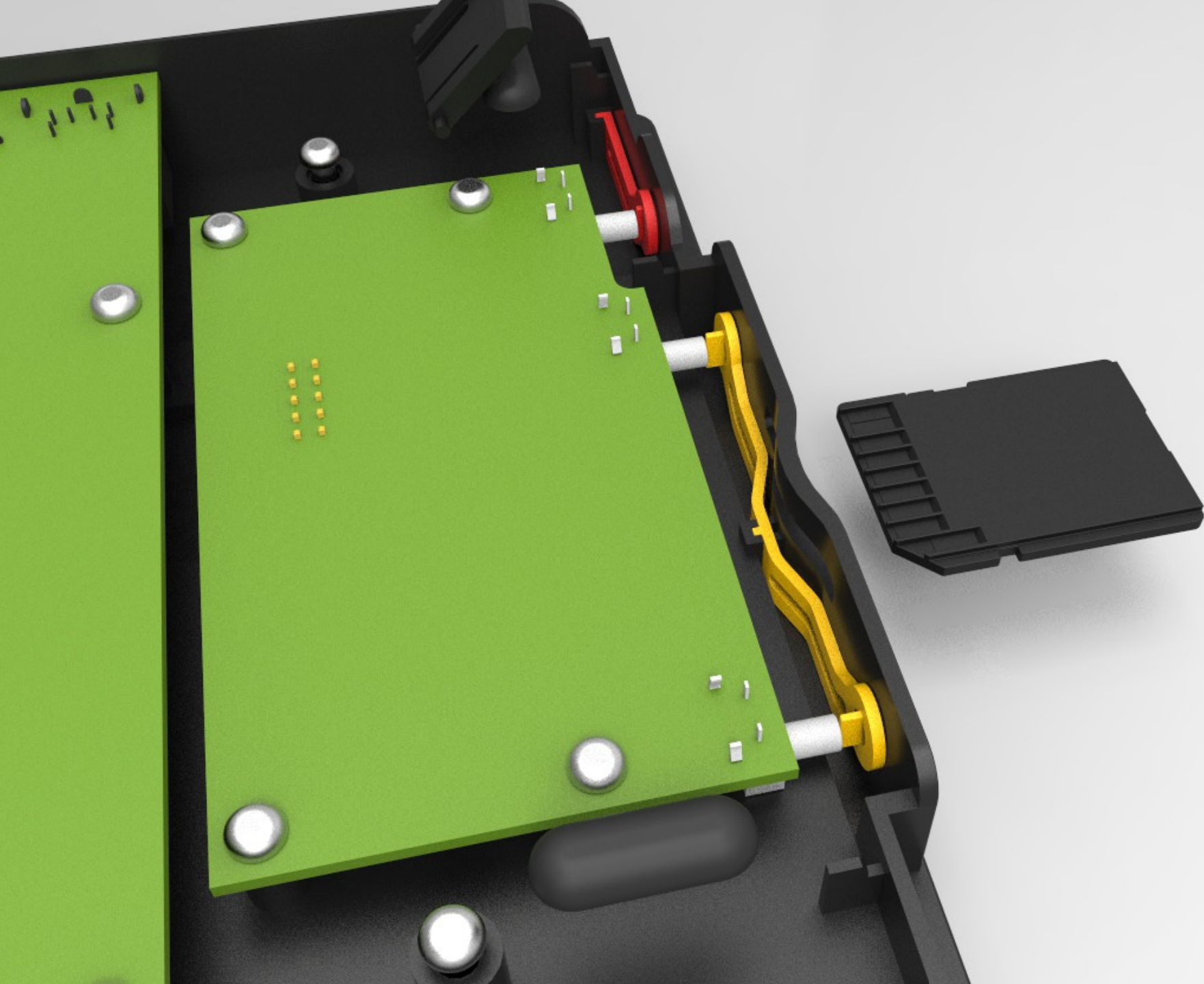


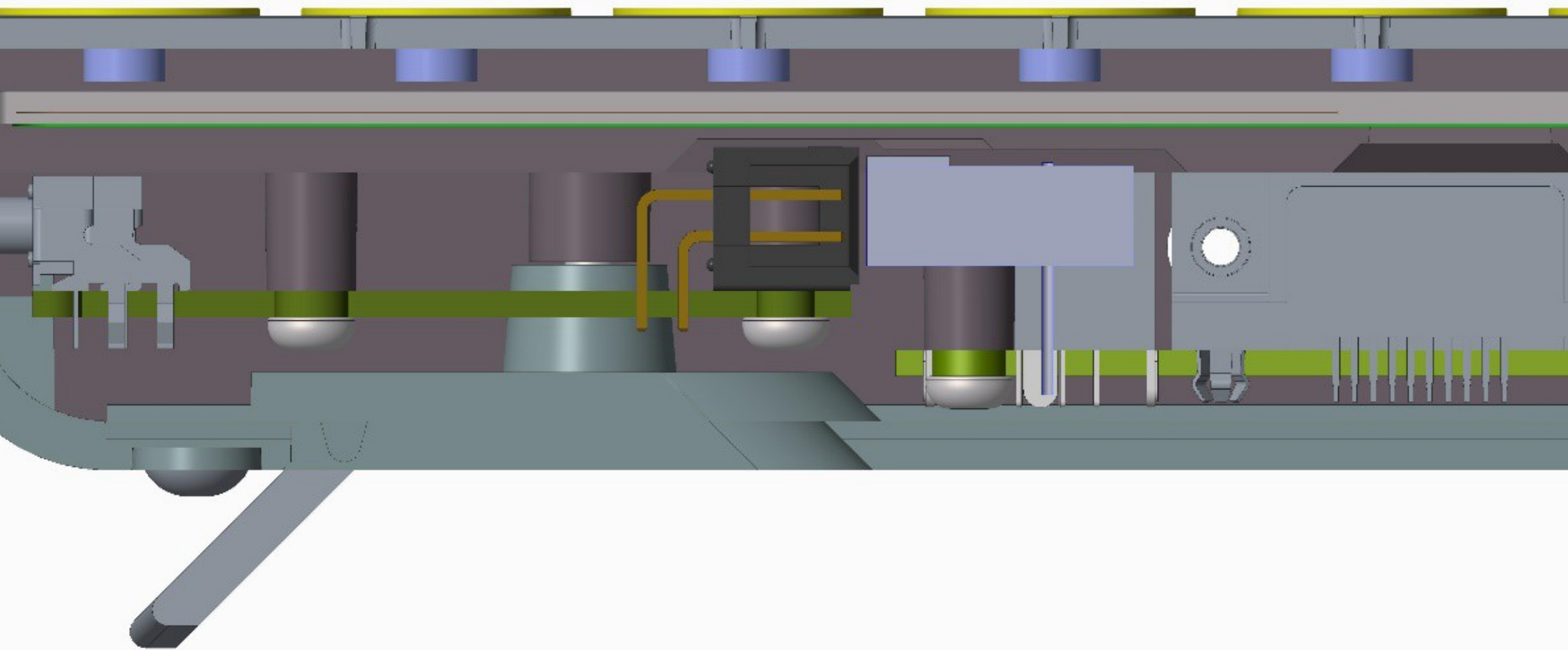


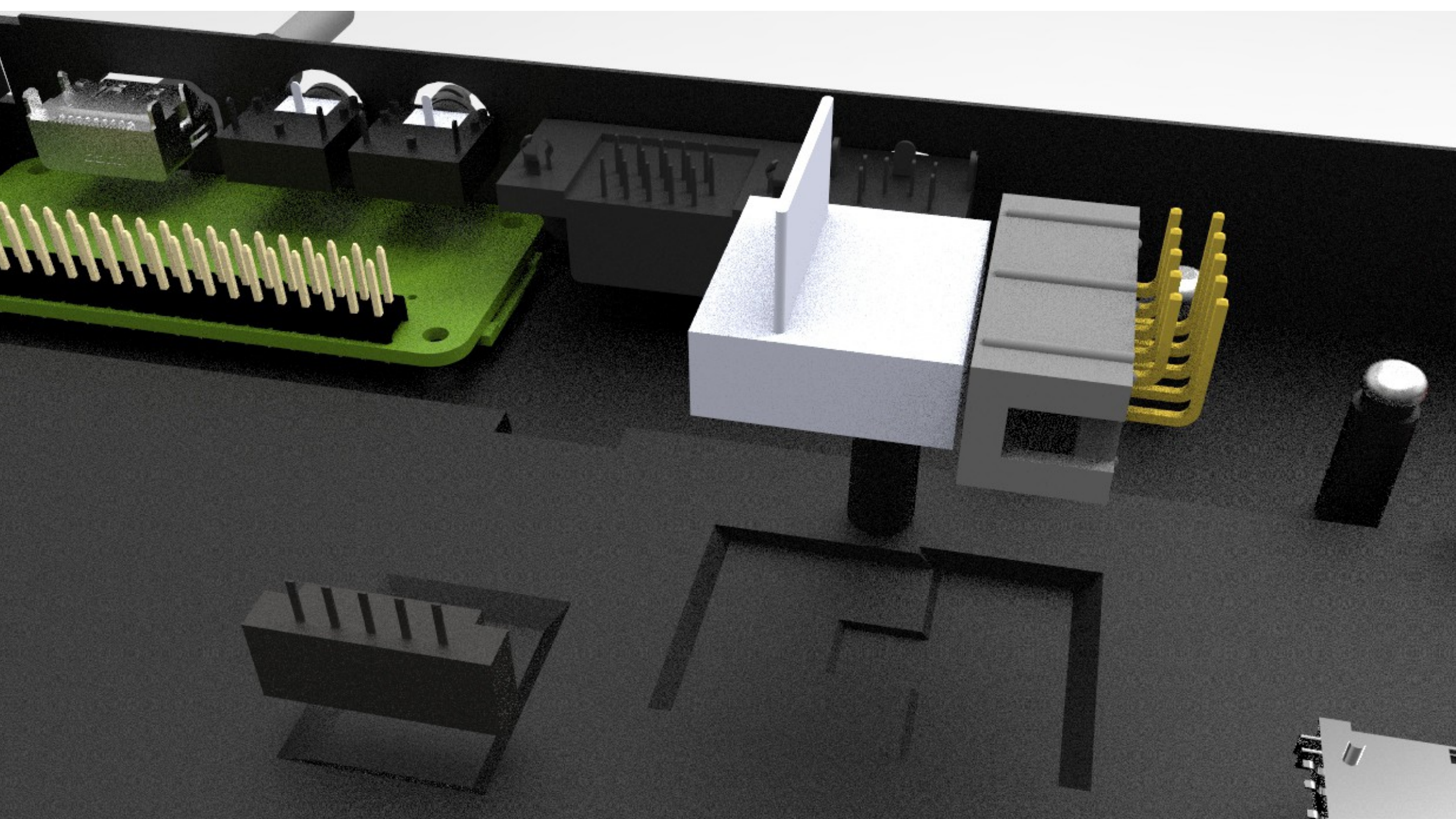


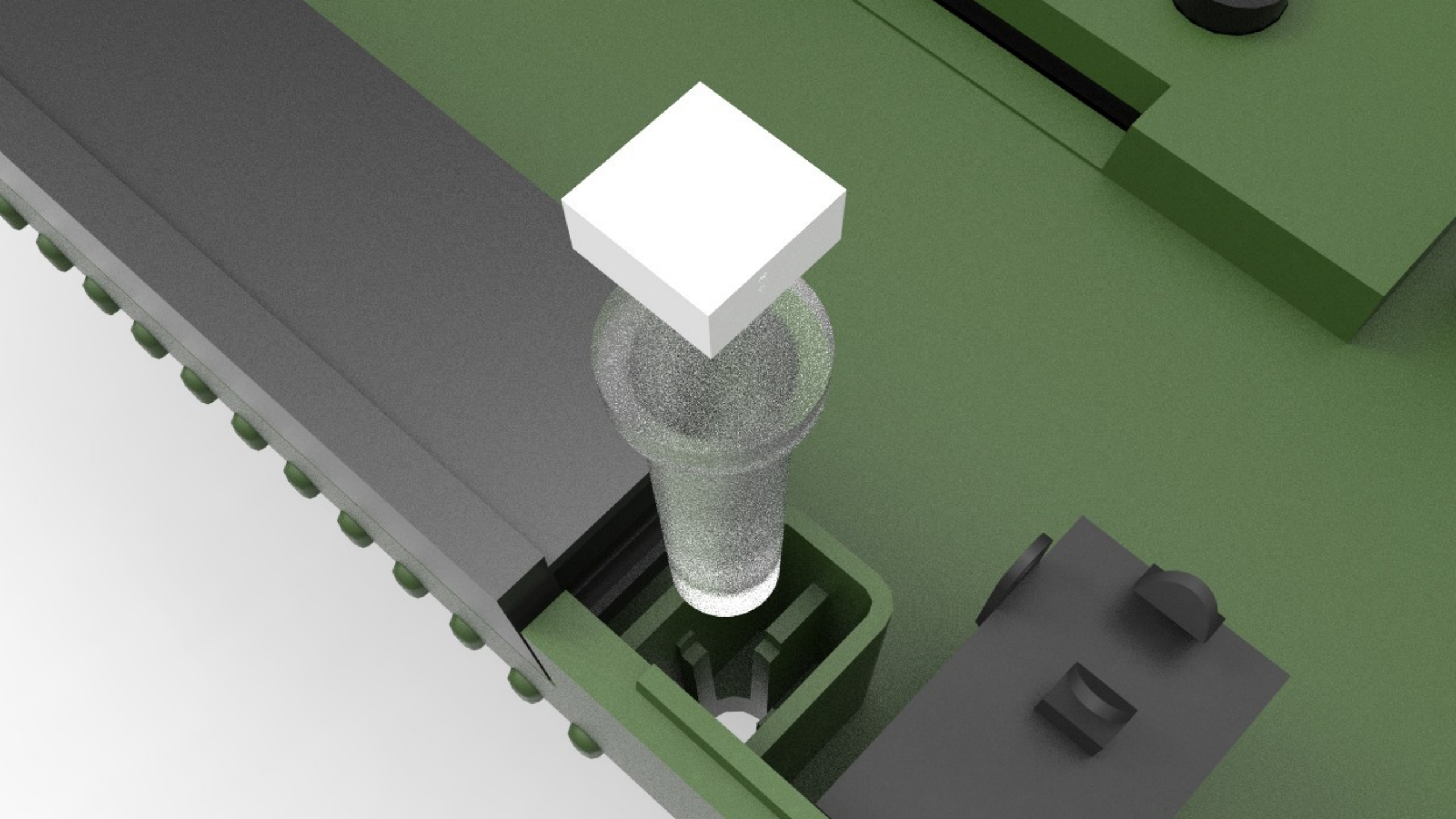


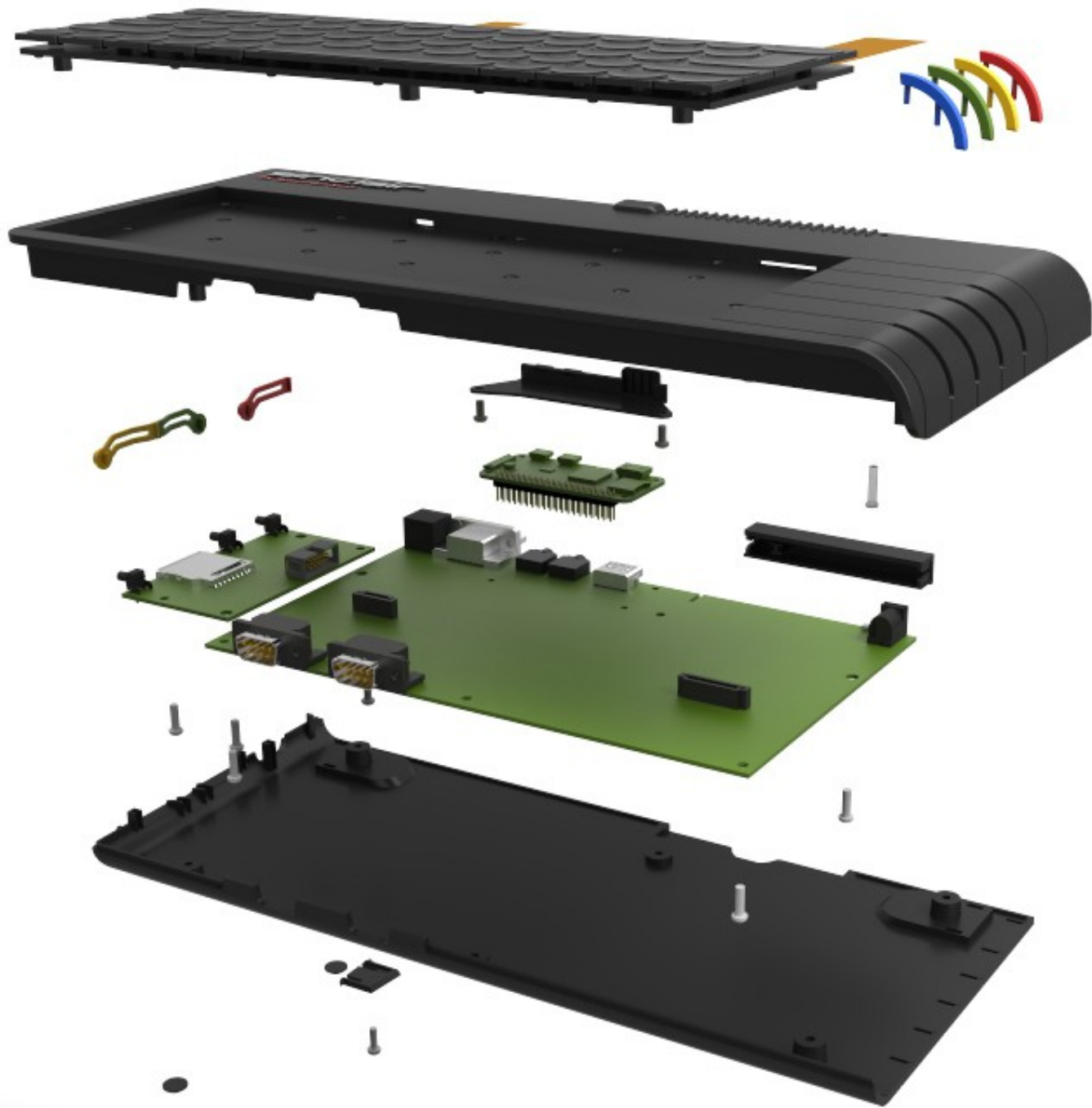


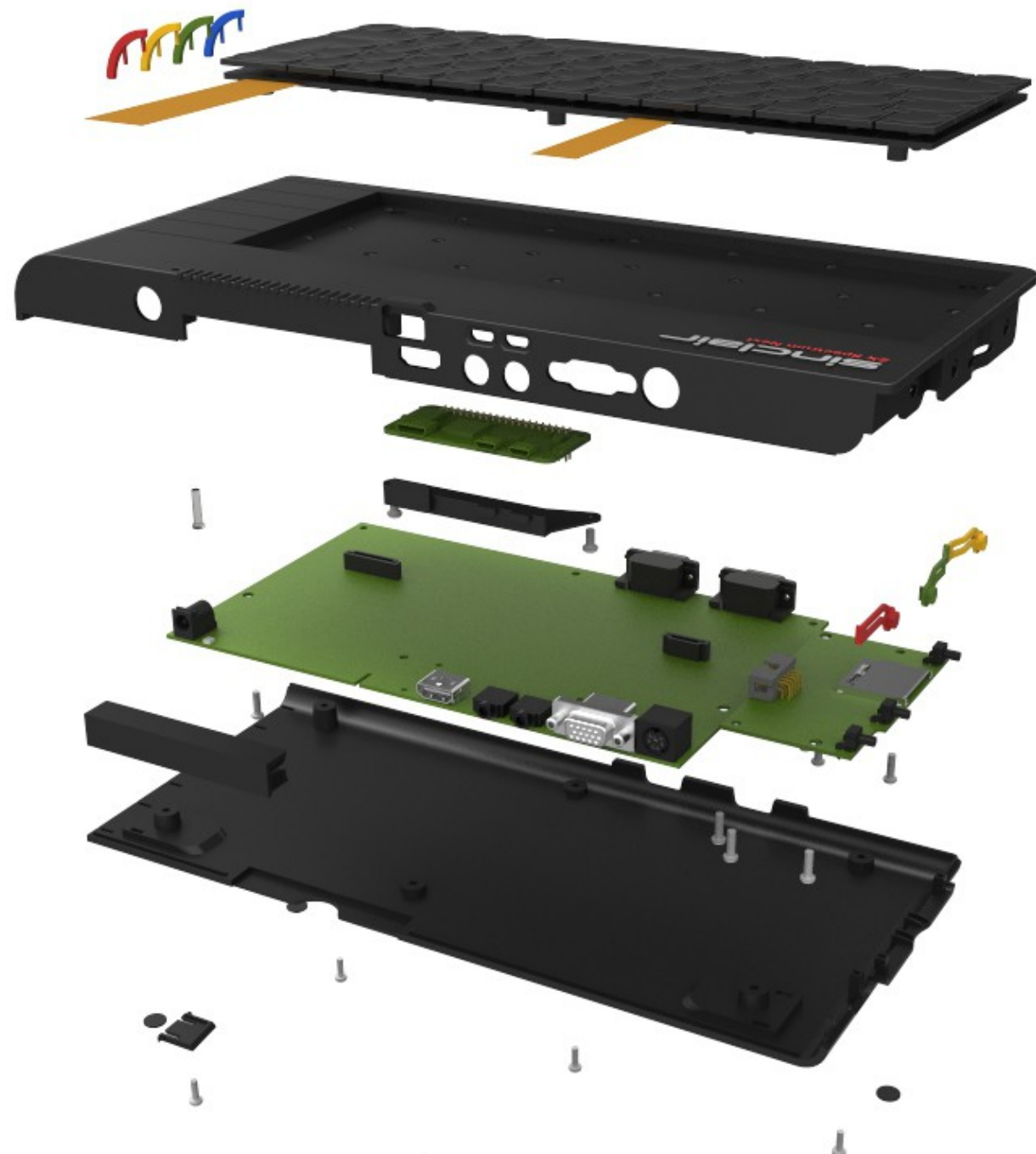


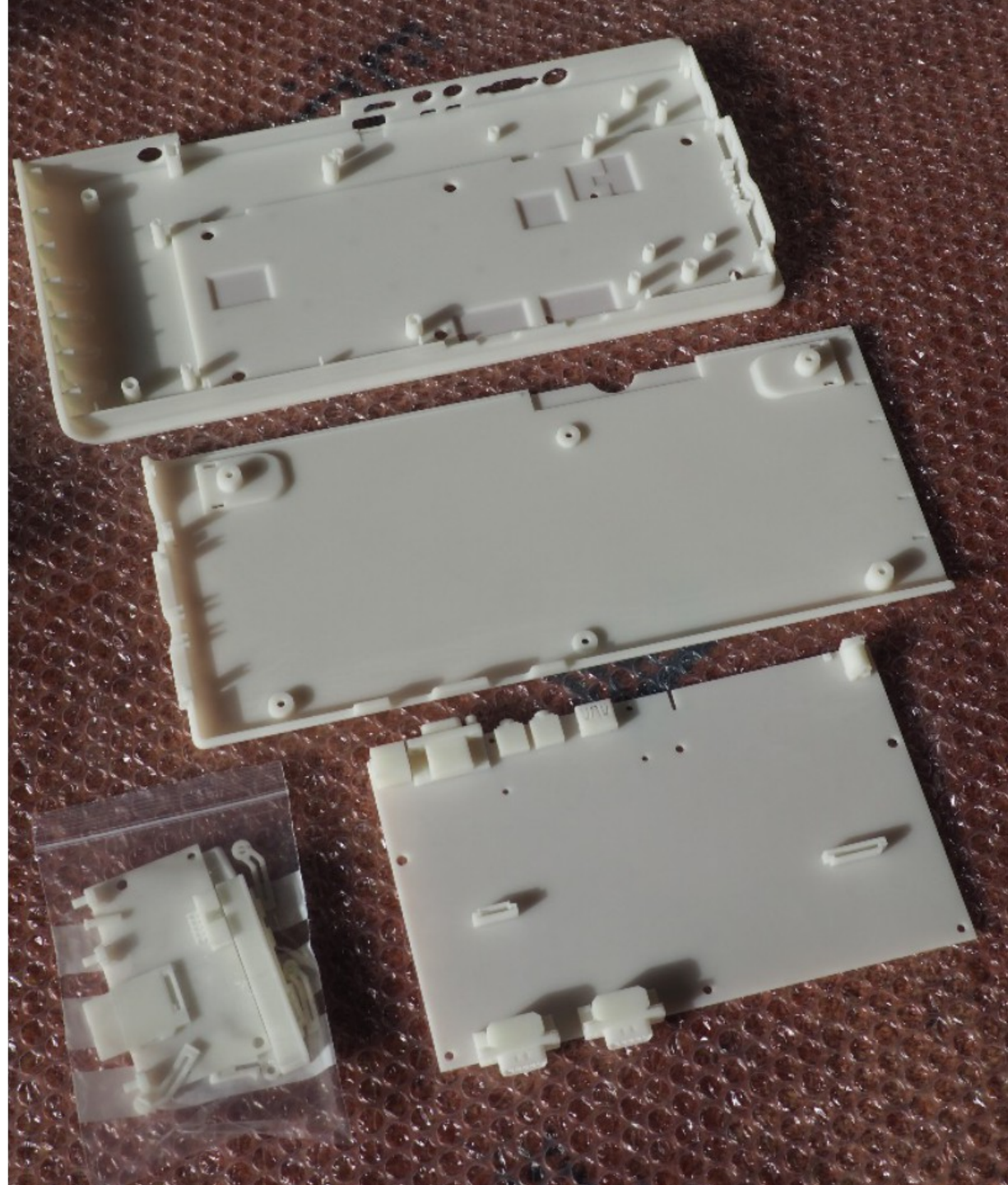


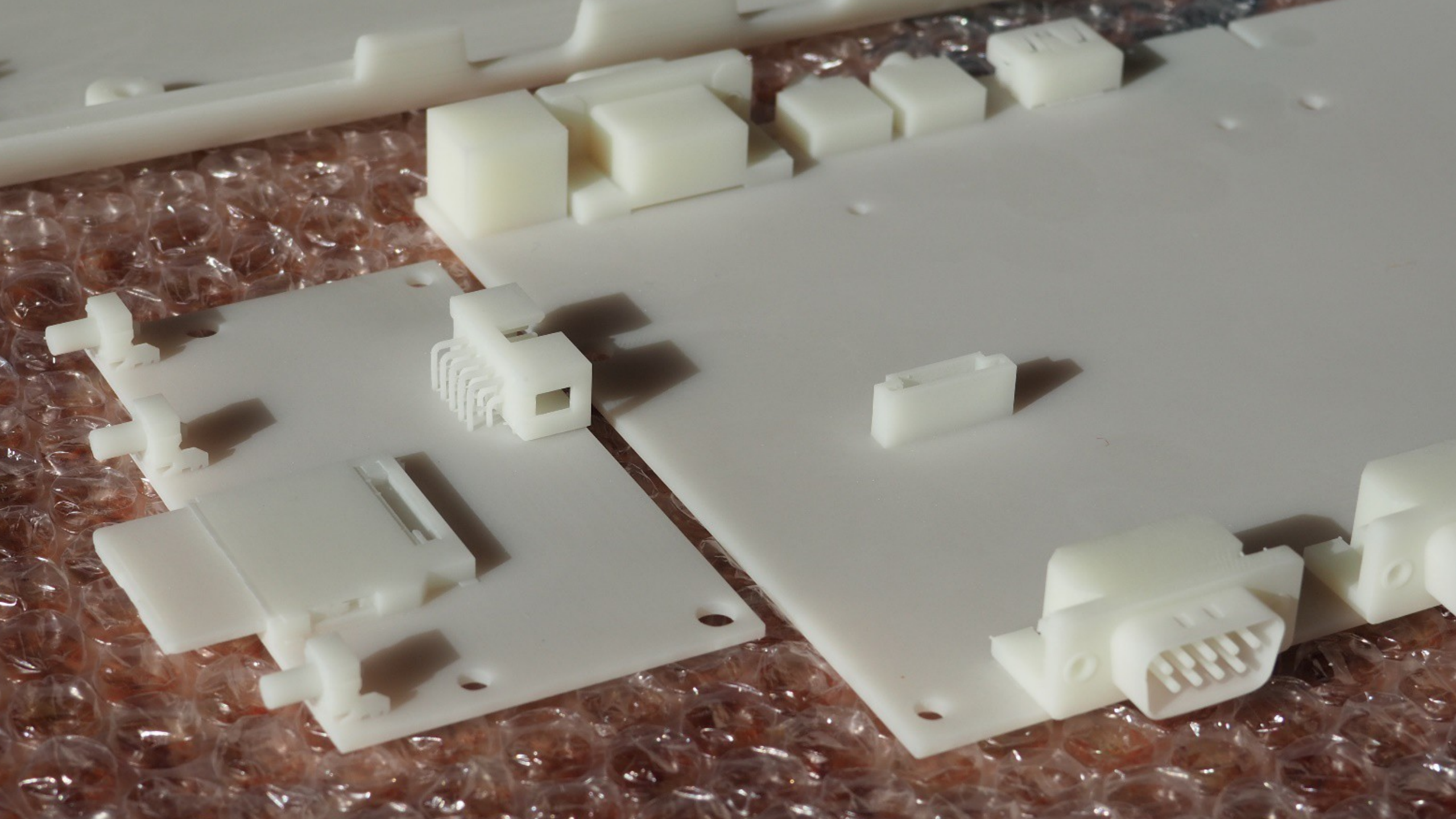














ZX Spectrum

WARB 63

37



SiNclair
ZX Spectrum Next

BREAK

EDIT

BLUE
DEF



sinclair
ZX Spectrum Next





