

Velkase Velka 7 rev 2.0 user manual (short version)

Download the detailed and most up-to-date version of the user manual at <https://www.velkase.com/downloads>

Specification

Dimensions	177 x 111 x 303 mm
Weight	2.1 kg
Materials	5 mm aluminum front panel 1.2 mm galvanized steel and stainless steel body 1.0 mm galvanized steel side panels
I/O	Rear: Motherboard, graphics Discrete graphics: uses internal extensions. 2x DisplayPort 1.2, 1x HDMI 2.0. DVI is not supported.
Security	Kensington Lock Slot
PCIe riser	PCIe 3.0 x16

Hardware compatibility

Motherboard	Mini ITX 170 x 170 mm
Power supply	SFX (not compatible with SFX-L)
CPU cooler	47 mm
Graphics card (L x W x H)	Maximum clearance, including cables. Cables require 16 mm if not recessed into the board. 289 x 43 x 140* mm *If card is 263 mm in length or under, max card height is 140 mm and max card + cable height is 145 mm
Memory	52 mm
Storage	1x 2.5 inch drive (9.5 mm thick) If graphics card length is < 212 mm: 3x extra 2.5 inch drives (2x up to 12.5 mm thick, 1x up to 7.0 mm thick)

Test all of your components before assembling a system in the case.

1. Assemble the computer with the graphics card plugged directly into the motherboard, test for functionality
2. In BIOS, set PCIe speed / compatibility mode to gen 3, test for functionality
3. Repeat step (1) with the PCIe riser, DisplayPort and HDMI extensions. Be gentle with these cables as they are not designed for external use.

Disassembly

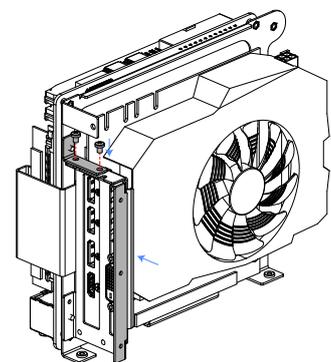
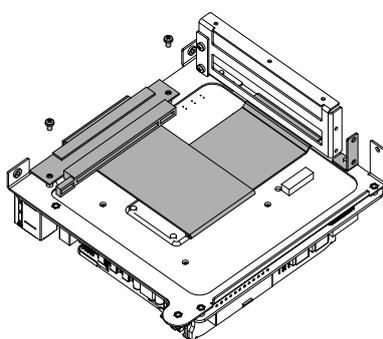
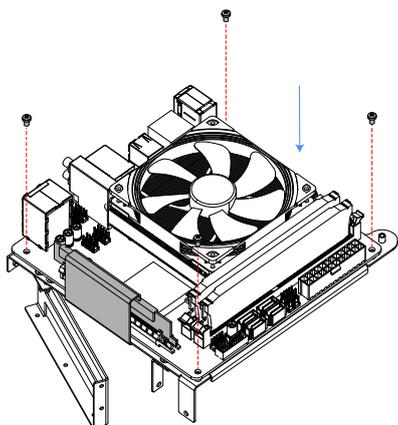
1. 2 screws on top-front and 2 screws on bottom-front to remove front panel
2. 6 screws in the front and 5 screws in the back to remove side panels
3. 2 screws on the left and 2 screws on the right to remove struts
4. 2 screws in the rear and 2 screws on bottom to remove motherboard tray, 2 screws in the rear to remove 2.5" drive bracket

Assembly

-Install CPU, cooler, memory, and M.2 drive onto the motherboard
-Attach motherboard to the tray and plug in the PCIe riser
-4x round head 4 mm M3 screws

-Bend female end of riser to form a 180 degree turn
-Bend the middle section at an angle two times to put the female end in place and secure with screws. Leave 5 mm between the middle bends to prevent "stacking"
-Avoid making repeat bends as this will stress the wires
-2x round head 4 mm M3 screws

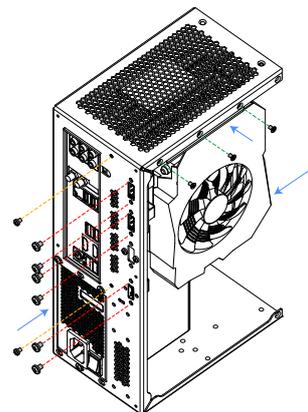
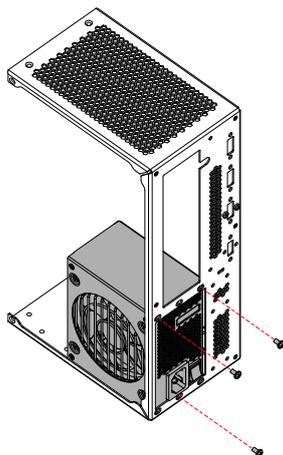
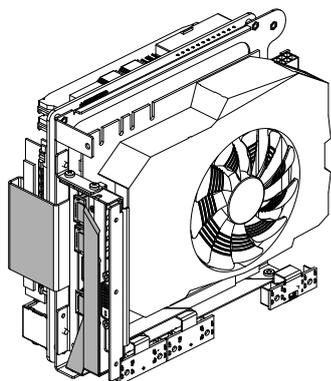
-Slot graphics card into riser
-Attach the card. It must not have protrusions past the bracket edge
-2x round head 4 mm M3 screws



-Plug video cables into graphics card. Fold them so that they do not protrude past the bracket edge
 -Avoid making creases near the connector to reduce risk of damage

-Insert PSU. Vents should face outwards
 -3x 6-32 screws

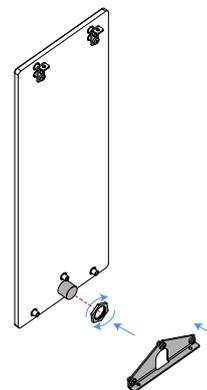
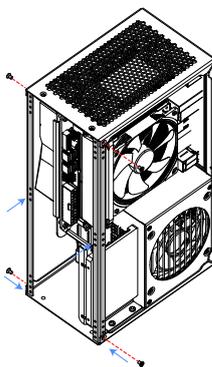
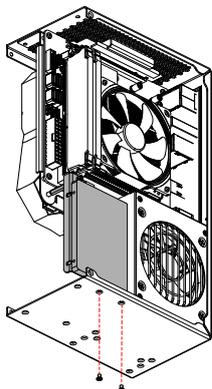
-Insert the motherboard subassembly into the case
 -3x countersunk 5 mm M3 screws (GPU bracket)
 -2x round head 4 mm M3 screws (motherboard tray)
 -6x round head 6 mm M4 screws



-Install the storage drive holder
 -Attach storage drive
 -Connect cables to all components
 -2x countersunk 5 mm M3 screws (drive holder)
 -4x round head 4 mm M3 screws (storage drive)

-All cables must be plugged in before this step
 -Complete the frame by installing the two struts in the front
 -4x countersunk 5 mm M3 screws

-Temporarily remove bottom bracket to install button
 -Use the hex nut to fix the button in place, then reinstall the bottom bracket
 -Consult your motherboard manual for the front panel header pin layout. Plug the power button wires into the corresponding motherboard pins



-Power button must be plugged in
 -Side panels have 3 positions. Flush mount: outermost positions for top and bottom screws and the middle position for the middle screw
 -For quieter operation, use other mounting holes
 -6x countersunk 5 mm M3 screws (front)
 -5x round head 4 mm M3 screws, 1x 6-32 screw (rear)

-Slide in front panel while inserting the button's cable into the case. Screw in on top and bottom
 -Reposition the brackets behind the front panel for a more loose fit
 -Stick on the included adhesive rubber pads
 -4x countersunk 5 mm M3 screws

