VELKA 3 Rev 3.0 USER MANUAL

5/OCT/23

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SPECIFICATION

Dimensions	184 x 99 x 219 mm				
$(L \times W \times H)$	7.2 x 3.9 x 8.6 in				
Weight	1.4 kg 3.1 lb				
Volume	3.99 L external; 3.81 L internal				
Materials	Main body: 1.2 mm galvanized steel, powdercoated, stainless threaded inserts				
	Front panel: 2.0 mm galvanized steel, powdercoated, stainless threaded inserts				
	Side panels, interior brackets: 1.0 mm galvanized steel, powdercoated, stainless threaded inserts				
	Structural standoffs: Brass				
	Screws: Ferrous steel				
	Power button: Aluminum, anodized				
I/O	Front: N/A				
	Top: N/A				
	Rear: Motherboard, graphics card				
Security	Kensington Lock Slot				

HARDWARE COMPATIBILITY

Motherboard	Mini ITX*
	170 x 170 mm
	*Maximum primary side component height: 47 mm
Power supply	Flex ATX. Maximum length: 150 mm
CPU cooler	Height:
CI O COOICI	
DOI '	37 mm
PCIe riser cable	Required for graphics card or other PCI card support.
	Hole pitch:
	108 mm
	Length:
	25-30 cm end-to-end / 20-25 cm along flexible portion
	25 50 cm cha to cha / 20 25 cm along hexiole portion
	Connectors:
	0° or 180° male to 0° or 180° female
	Recommended models:
	Velkase VC-S300G3; VC-S290G4
	Ventage V C 55 0 0 05 , V C 52 5 0 0 1
Graphics card	Maximum clearance, including space for cables. Cables
/ PCI card	require 16 mm+ if not recessed and routed within the
$(L \times W \times H)$	bounding box area of the board.
(LXWXII)	bounding box area of the board.
	175 x 43 x 148* mm
	179 x 41 x 148* mm
	*148 mm for card+ cables, 140 mm for card
	2.0 PCI slots thick
	Maximum backplate thickness: 4 mm
	2-slot graphics cards must not have protrusions past the
	edge of the PCI bracket
	eage of the follower
Memory	Height:
	42 mm
Storage	1x 2.5" HDD or SSD (7.0 mm thick)
Case fans	N/A
Handles	Hole pitch:
	128 mm
	Screw diameter:
	4 mm maximum
L	

PACKAGE CONTENTS

- Velka 3 chassis with pre-installed power button. *PCIe riser cable and handle not included*
- 14x 3M Bumpon adhesive rubber bumpers
- Hardware box; contents listed below. Quantities may vary.

x12	M3x0.5 5 mm countersunk screw
x16	M3x0.5 4 mm round head screw
x6	6-32 6 mm round head screw
x3	M4x0.7 8 mm flat head screw
x1	PCIe card retention bracket

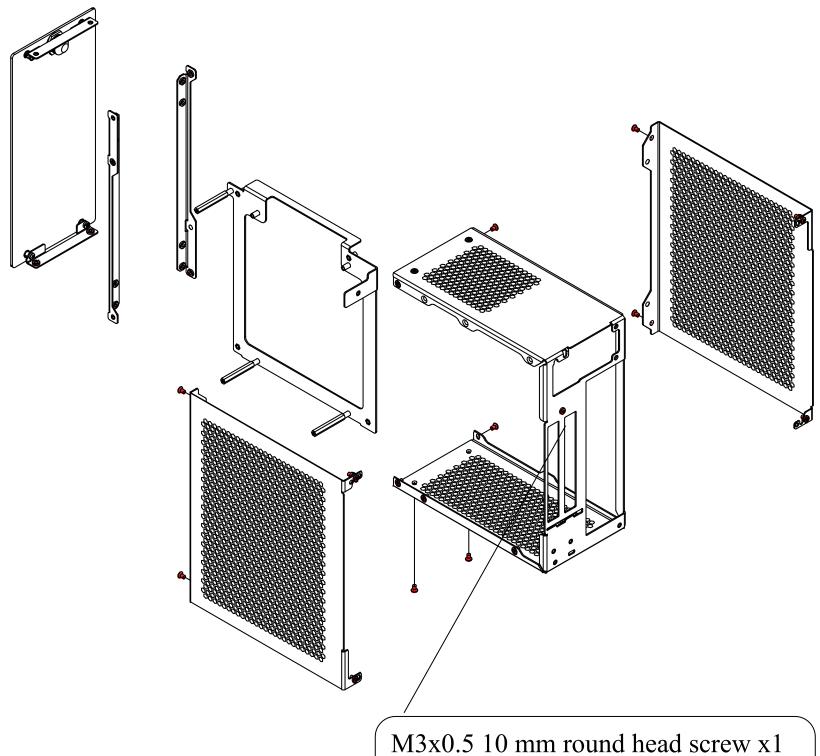
REQUIRED TOOLS

#2 Phillips (PH2) screwdriver



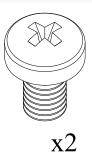
CASE DISASSEMBLY

- Perform initial system assembly with all components and cables outside of the case
- Work on a soft, clean surface
- Once complete, disassemble the case to the following state

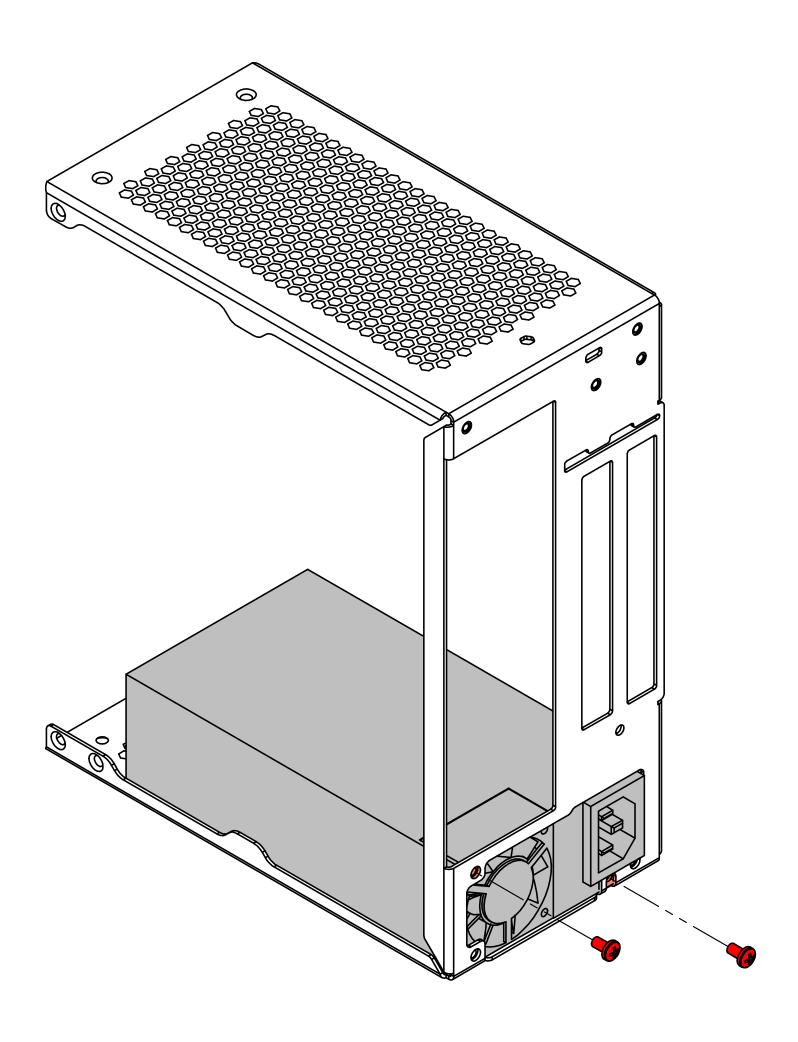


M3x0.5 10 mm round head screw x1 Not included in hardware box. Required for assembly

PSU



6-32 6 mm round head screw

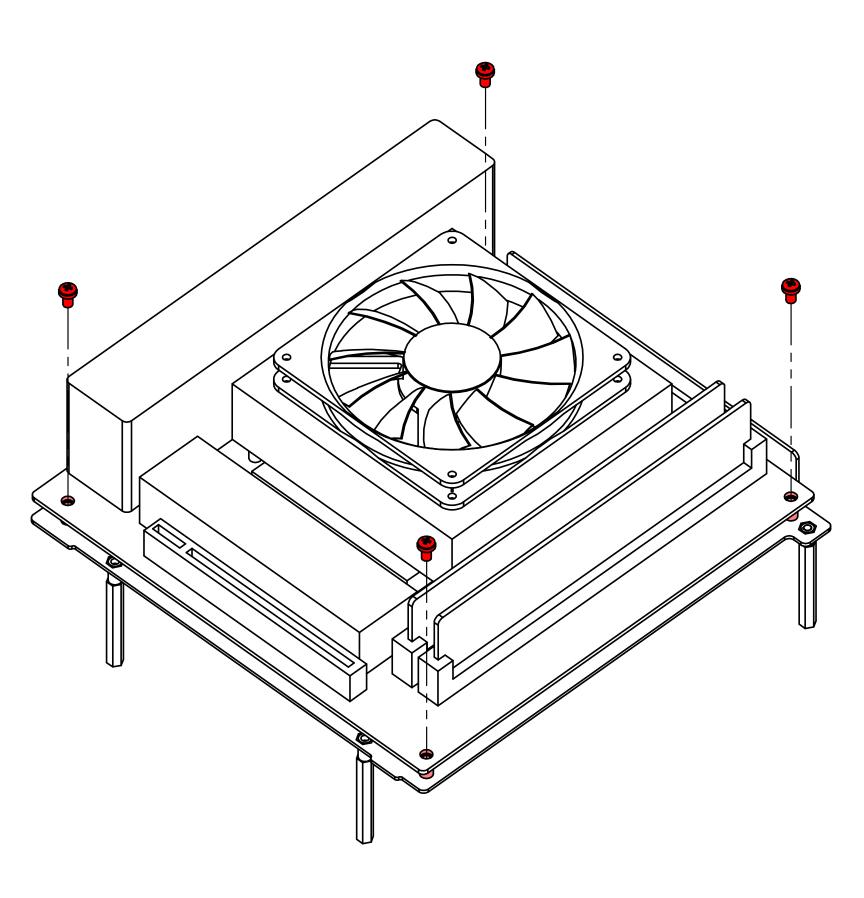


MOTHERBOARD

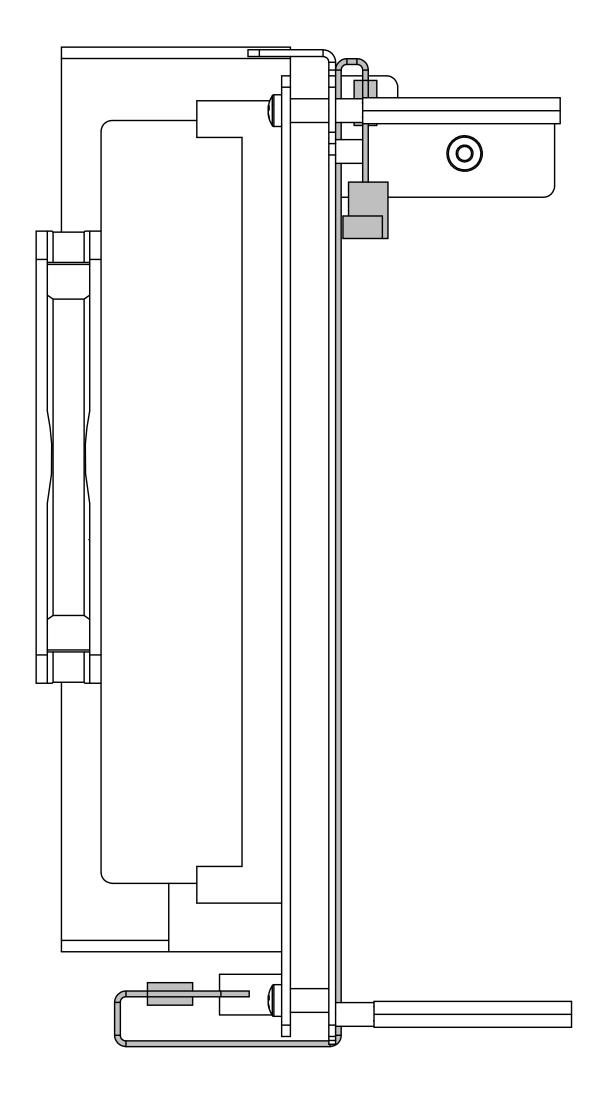
• The CPU, CPU cooler, RAM, and storage should be installed onto the motherboard prior to this step



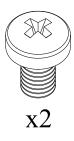
M3x0.5 4 mm round head screw



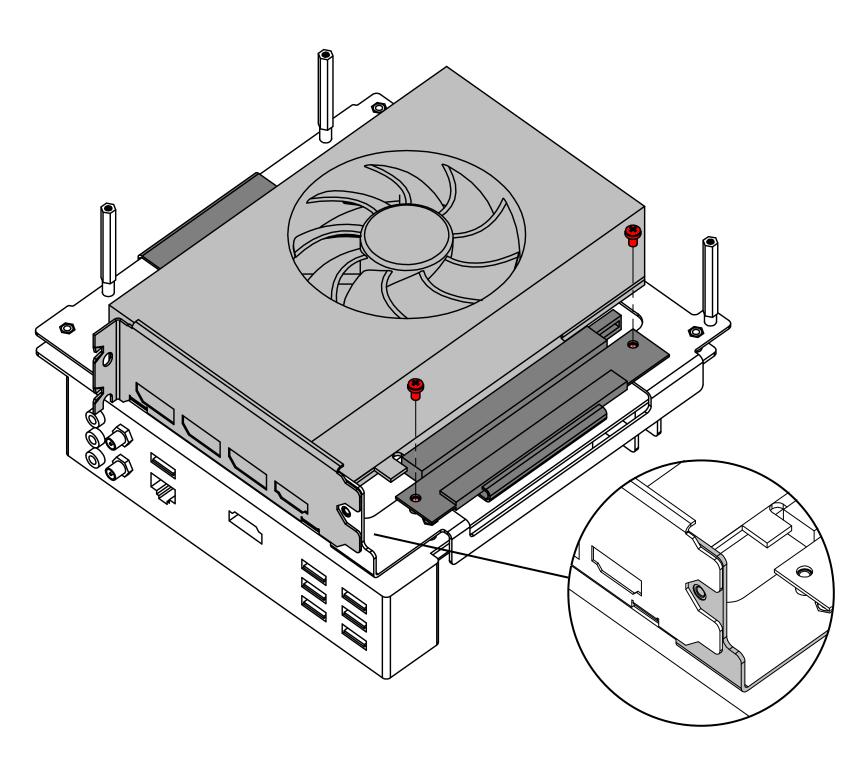
As viewed from the front



GRAPHICS CARD



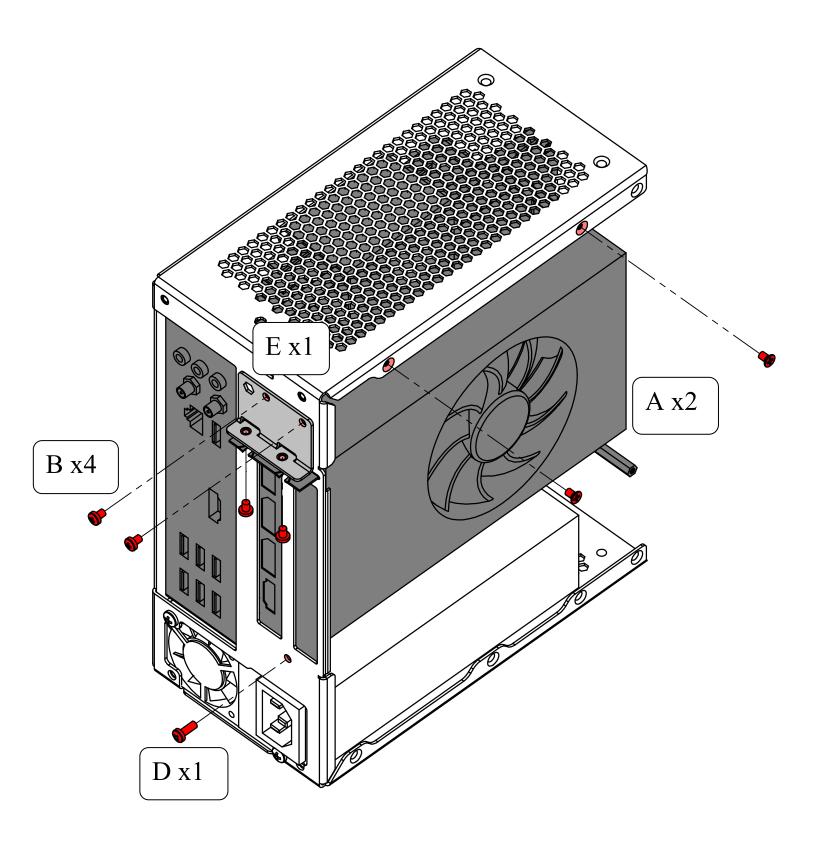
M3x0.5 4 mm round head screw



MOTHERBOARD TRAY INSERTION

- Install the motherboard IO shield in the appropriate orientation
- Pay attention to the PCIe cable to prevent it from being caught on any edges
- Connect the graphics card's power cable mid-way through insertion, and the remaining components' power cables afterwards

x2	(A) M3x0.5 5 mm countersunk screw	x1	(D) M3x0.5 10 mm round head screw (from disassembly)
v4	(B) M3x0.5 4 mm round head screw	x1	(E) PCIe card retention bracket

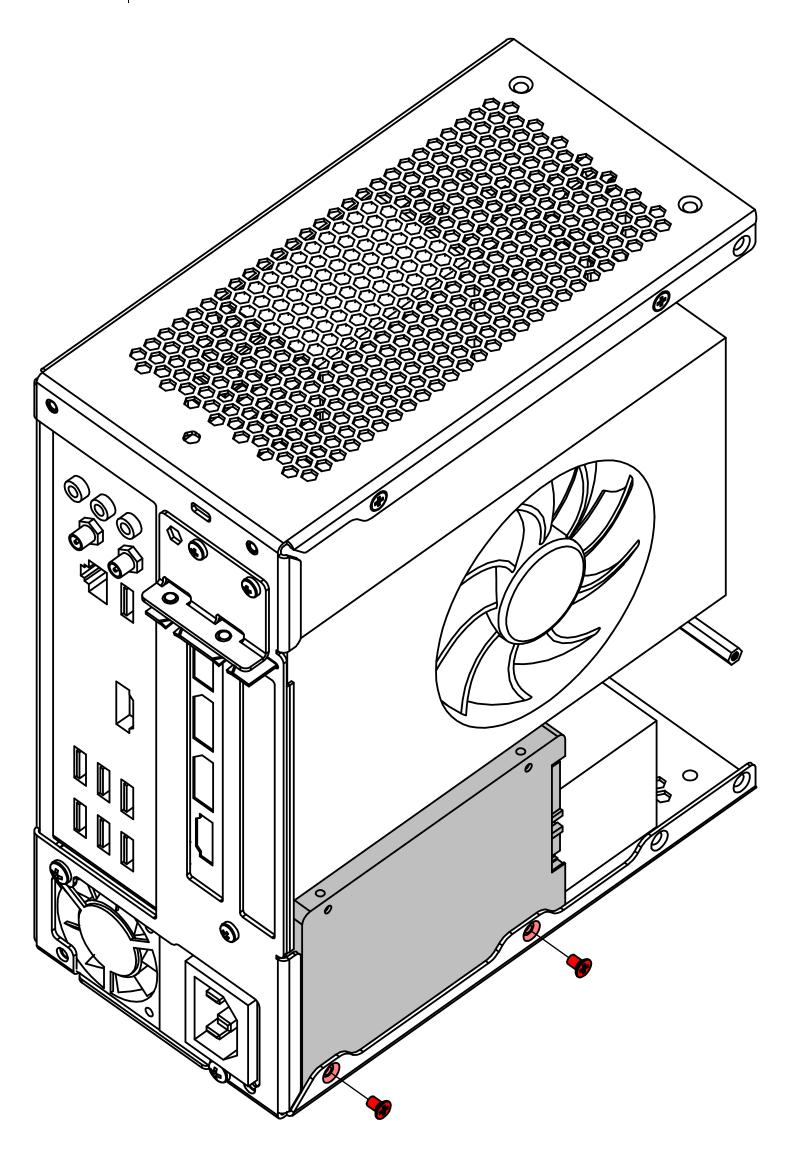


SATA DRIVE

• Connect the SATA data and power cables to the storage drive and motherboard at this step

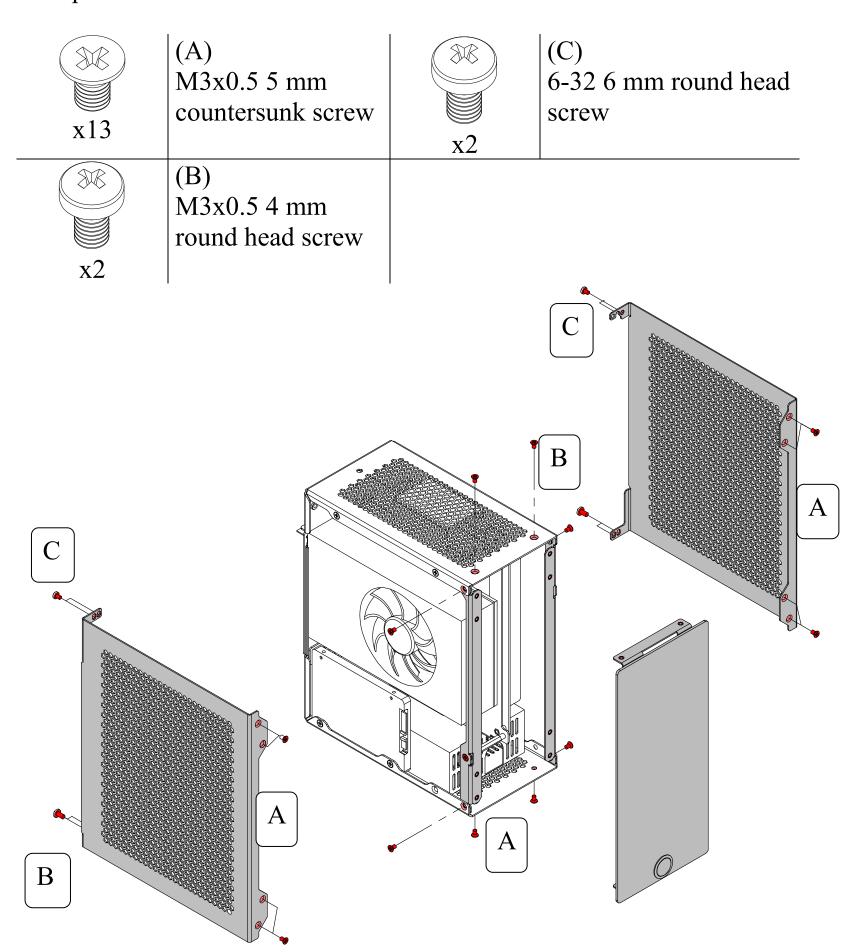


M3x0.5 5 mm countersunk screw



CLOSING THE CASE, RUBBER FOOT INSTALLATION

- Wipe the case surface to improve rubber foot adhesion
- Stick 4 adhesive rubber bumpers onto the bottom of the case according to the chosen orientation
- For quieter operation and increased internal clearances, mount the side panels using the adjacent mounting holes. The side panels will bend inwards at the center due to their concave shape, which can be partially mitigated by inserting rubber bumpers between the case body and side panels



TROUBLESHOOTING

- Screw heads stripping
 - Ensure that you are using a #2 Phillips driver for the included screws. Using any other type of driver for the included screws can wear them down, making them difficult or impossible to remove.
 Replace damaged screws early
- System instability or no display output from the graphics card while using PCIe gen 4+ motherboard and graphics card with an older gen PCIe riser cable
 - o Manually set PCI link speed in UEFI BIOS to match that of the PCIe riser cable (ex: gen 3). If there is no display output in UEFI BIOS, use onboard graphics (if available) or plug the graphics card directly into the PCIe slot without the cable to change this setting

SUPPORT AND SERVICE

For all inquiries, please email contact@velkase.com

All user manuals: www.velkase.com/downloads