VELKA 3

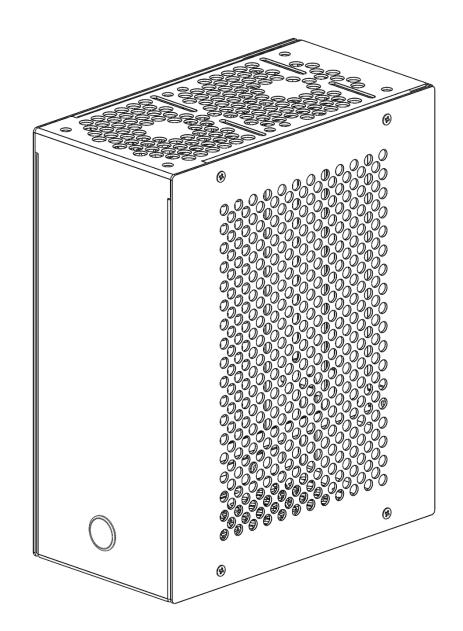


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Specifications

Case Specifications

Minimum Dimensions (L x W x H)	172 x 97 x 225 mm excluding protrusions 184 x 97 x 228 mm including protrusions				
Maximum Dimensions (L x W x H)	187 x 97 x 225 mm excluding protrusions 187 x 97 x 228 mm including protrusions				
Volume (liters)	At minimum length: 3.7 L external, 3.6 L internal At maximum length: 4.1 L external, 3.9 L internal				
Desk footprint (excluding protrusions and cables)	At minimum length: 170 cm ² At maximum length: 180 cm ²				
Weight	0.55 kg (1.2 lb)				
Form Factor	Small form factor				
Materials	Front shell	1.2 mm anodized brushed aluminum			
	Side panels	1.2 mm anodized sandblasted aluminum			
	Back panel	1.2 mm powder-coated aluminum			
	Rear cover	1.2 mm powder-coated aluminum			
	Motherboard tray	1.0 mm powder-coated steel			
	Power button	anodized aluminum			

Hardware compatibility

Motherboard	Mini ITX			
	170 x 170 mm			
Power supply	Flex ATX: 150 x 81.5 x 40.5 mm With external AC-DC adapter:			
	HDPLEX 400W HiHi DC-ATX			
	(takes up one CPU side 2.5" drive space)			
	HDPLEX 200W DC-ATX			
	(single slot mode only)			
	MiniBox picoPSU-160-XT/150-XT			
	rev 1.0 and 1.1 are only compatible with Flex			
	ATX power supplies			
CPU cooler	Dual slot mode: 37 mm Single slot mode: 52 mm*			
	*Wraith Stealth and most other coolers have 57			
	mm clearance			
Expansion card (L x W x H)	Dual slot mode at maximum case length:			
Expansion card (E x w x 11)	185* x 43 x 142 mm			
	Single slot mode at maximum case length:			
	185* x 22 x 142 mm			
	rev 1.0 and 1.1 limit length to 183 mm			
Memory	Dual slot mode: 42 mm			
TVICINOT y	Single slot mode: 42 mm			
2.5" drives	1 - 5. See "Hardware configurations" below.			
Case fans	80 x 80 x 10 mm			
DOIE :	Quantity: 2			
PCIE riser	LiHeat 300 mm D type			
Power Button	16 mm panel cutout diameter. 18 x 18 x 20 mm			

Hardware configurations

Expansion slots	CPU cooler	Expansion slots	Top fan(s)	2.5" mounts
available	clearance	used		
2	37	2	Yes	1
1	52	1	Yes	1
2	37	2	No	2
1	52	1	No	2
1 or 2	37 or 52	0	Yes	3
1	52	0	No	4
2	37	0	No	5

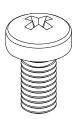
Included Mounting Hardware



20x screws

M3x0.5 (#4-40)

For most parts



4x 6-32 screw

M3.5x0.6 (#6-32)

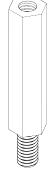
For power supply



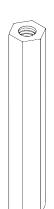
4x 6 mm standoffs



3x 7 mm standoffs



3x 20 mm standoffs



3x 30mm standoffs

M3x0.5 (#4-40)

For motherboard

System Assembly

Overview

Case must be disassembled prior to installing hardware.

Some users may experience difficulties when building in a Velka case for the first time. To prevent back-tracking during the build process, please briefly review the following build order before following the guide step-by-step.

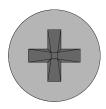
The following guide includes steps for assembly of the most complicated setup with a 37 mm CPU cooler, dual slot graphics card, and one 2.5" drive, and two case fans. Some sections may be skipped depending on your hardware configuration. For instance, riser installation and expansion card installation sections do not apply to builds without an expansion card.

The following drawings do not show cables.

- 1. Prepare motherboard, CPU, CPU cooler, M.2 storage. Install direct plug in PSU if applicable (HDPLEX 200W DC-ATX, MiniBox picoPSU, etc)
- 2. Install motherboard onto tray. Install extra standoffs into tray if the cooler backplate does not fit without them
- 3. Install PCIE riser
- 4. Attach rear cover if in single slot mode. Install extra PSU plate if using a non-Flex ATX PSU. Insert IO shield into back panel.
- 5. Attach motherboard tray to back panel, install expansion card and storage
- 6. Install power supply, connect main 24 pin, EPS 4+4 pin, PCIE 6+2 pin, SATA connectors
- 7. Front shell: install cooling fans and storage
- 8. Connect power button, fans, storage to motherboard and power supply
- 9. Slide front shell onto components, connect shell to standoffs, install side panels

Required Tools

o #2 Phillips head screwdriver required (magnetic tip recommended)

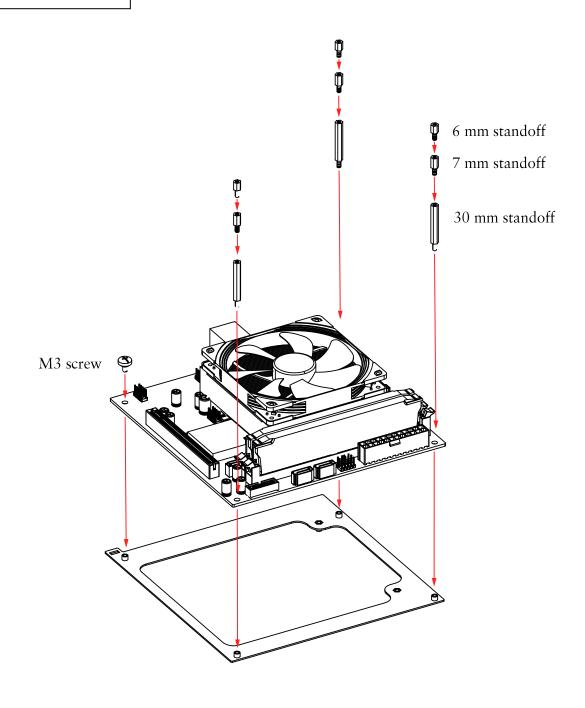


Component Test Outside of Case

- O Please inspect internal components for defects and ensure that all are functional prior to building in the case
- O Test PCIE riser

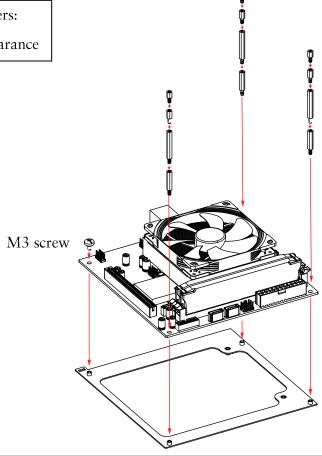
Motherboard Tray Subassembly (Dual Slot)

37 mm cooler clearance



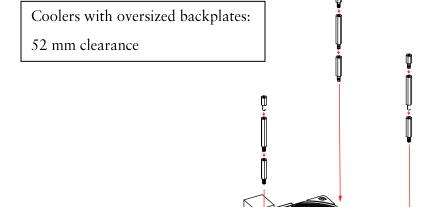
Motherboard Tray Subassembly (Single Slot)

Most coolers: 57 mm clearance



6 mm standoff 7 mm standoff 30 mm standoff

20 mm standoff



M3 screw

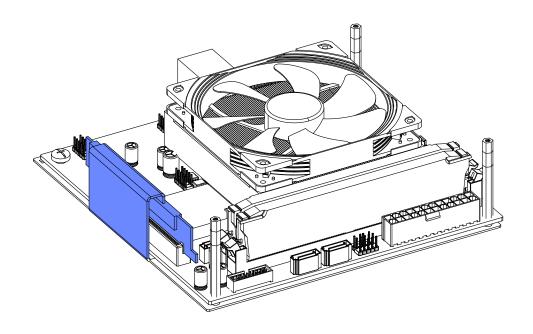
7 mm standoff

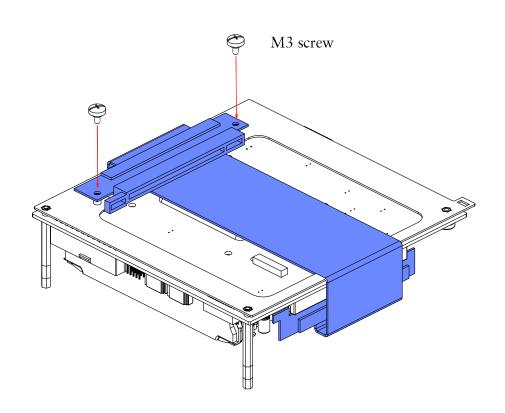
30 mm standoff

20 mm standoff

6 mm standoff

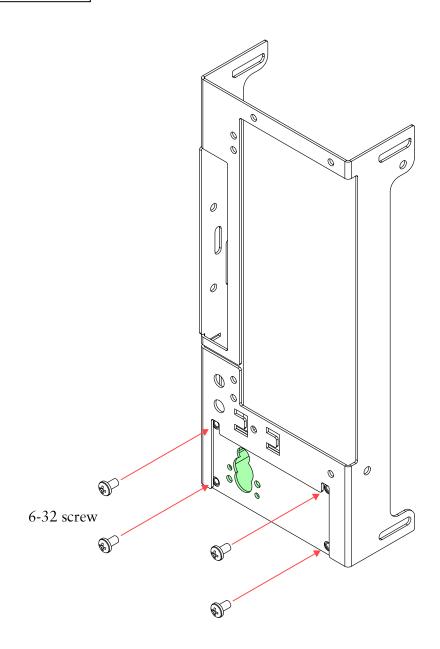
PCIE Riser Installation



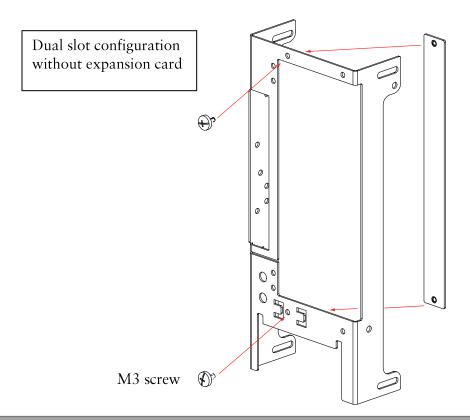


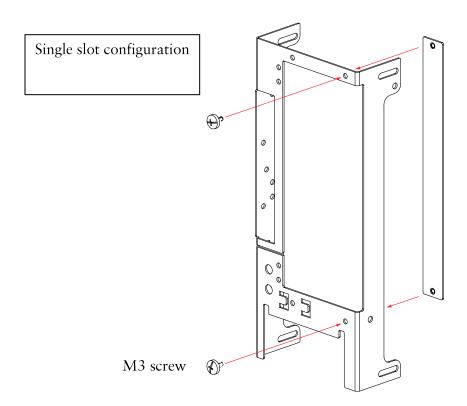
Rear PSU Plate Installation (Non-FLEX ATX PSUs only)

Openings are highlighted



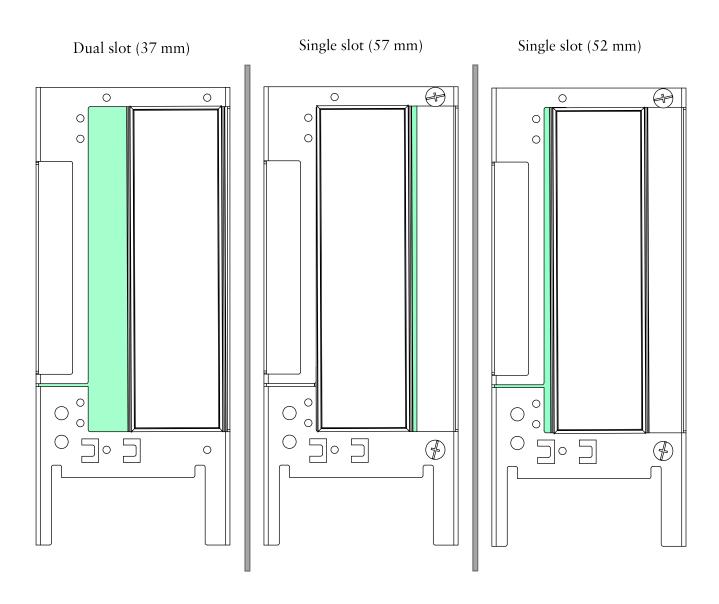
Rear Cover Installation



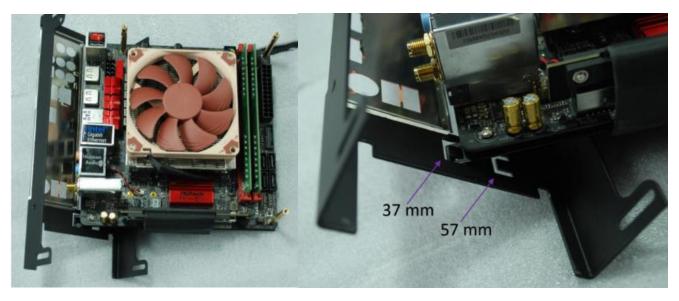


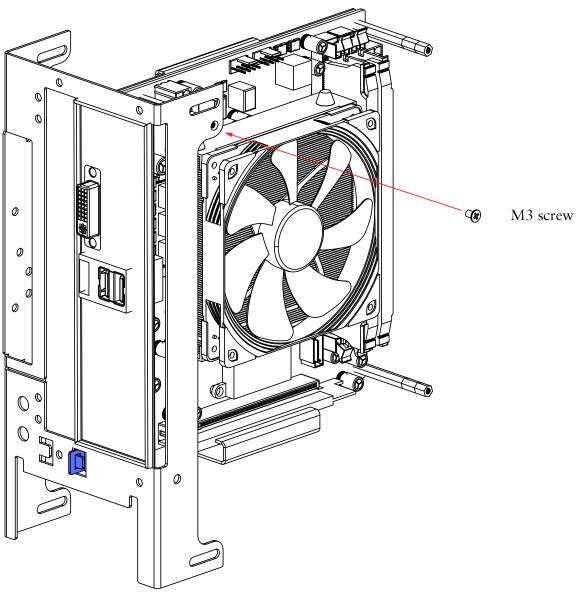
IO Shield Installation

Openings are highlighted

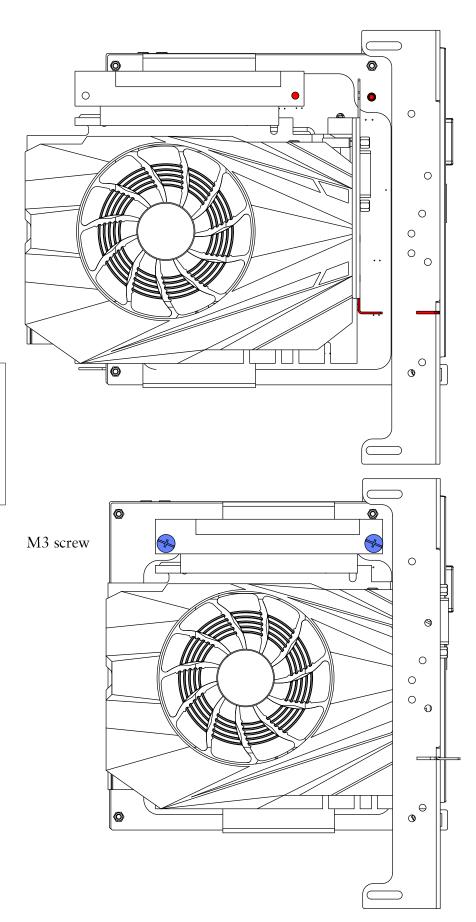


Connecting Motherboard Tray to Back Panel

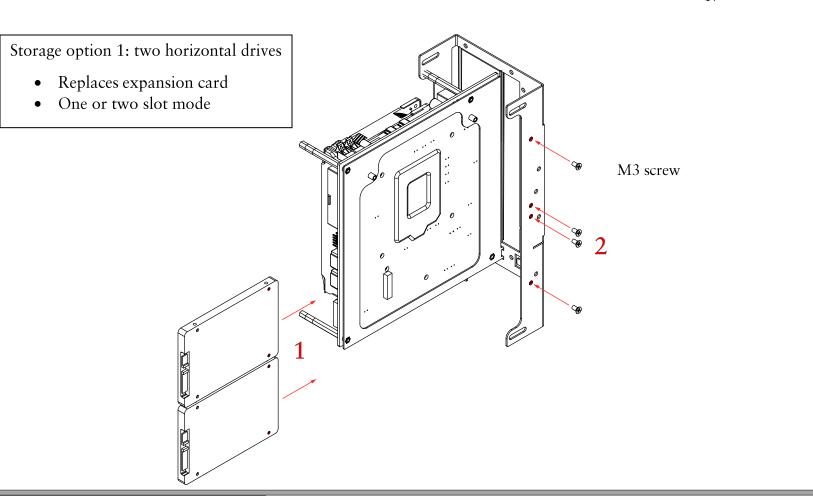




Graphics Card and Storage Installation

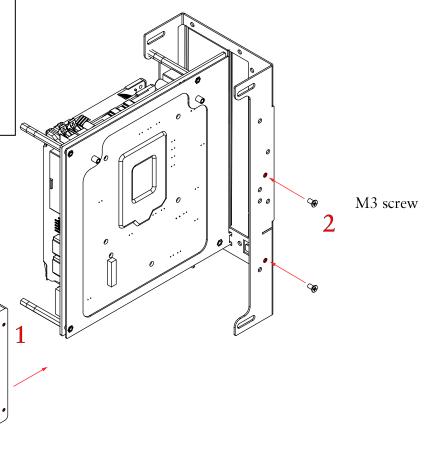


- 1. Unscrew riser
- 2. Connect card to riser
- 3. Line up red features, slide in
- 4. Screw in riser with M3 screws

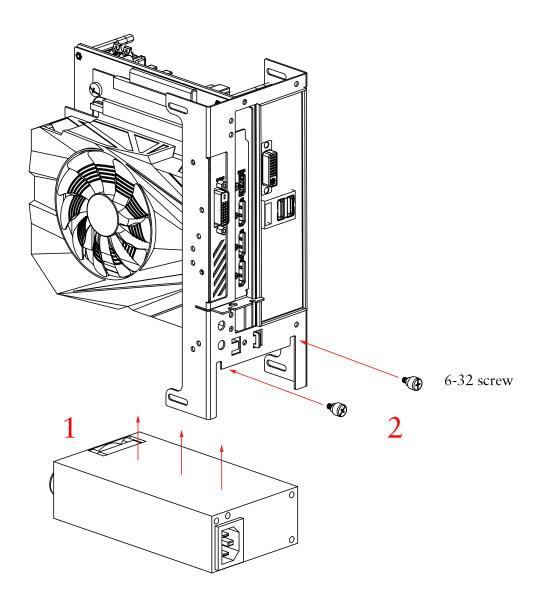


Storage option 2: one vertical drive

- Replaces expansion card
- One or two slot mode
- One more drive can be installed vertically onto front shell (see "Front Shell Storage Installation"

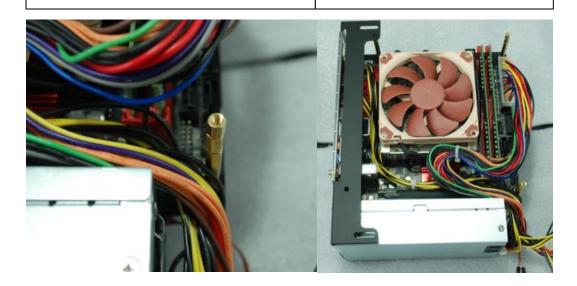


Flex ATX Power Supply Installation and Cable Management



Route main 24 pin and CPU 4 + 4 pin connectors under standoff

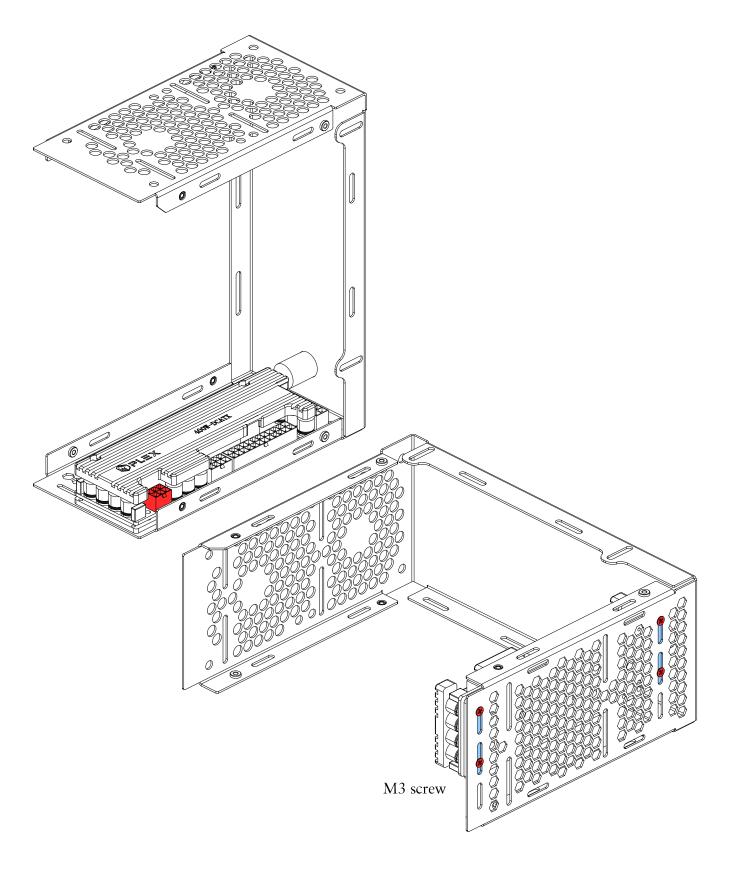
Plug in cables: main 24 pin, CPU 4+4 pin, SATA



Plug in cables: PCIE 6+2 pin



HDPLEX Power Supply Installation



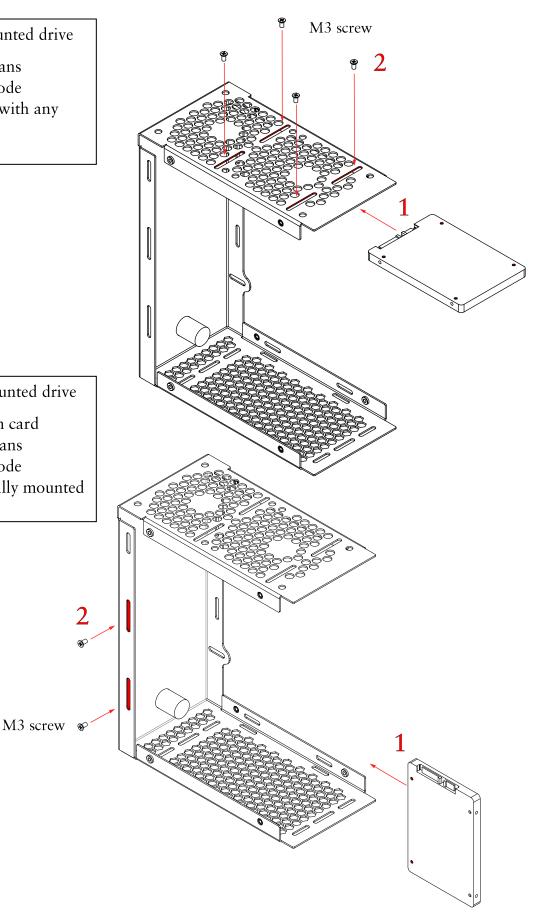
Front Shell Storage Installation

Storage option 1: top mounted drive

- Replaces two top fans
- One or two slot mode
- Does not interfere with any expansion cards

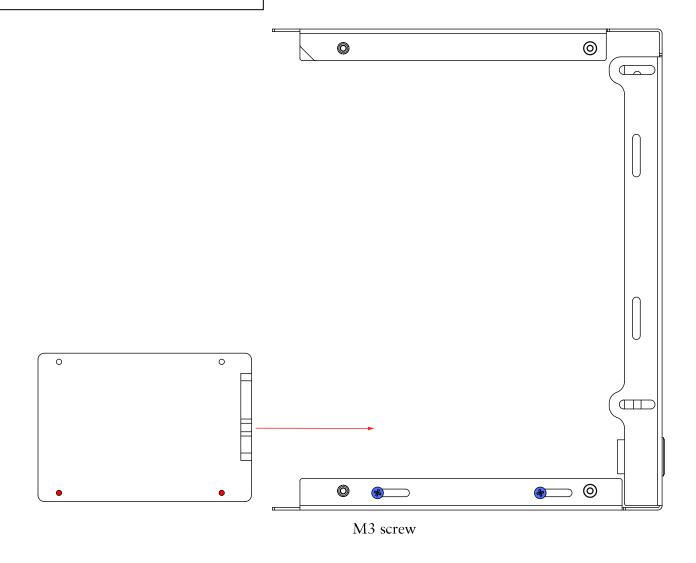
Storage option 2: side mounted drive

- Replaces expansion card
- Can be used with fans
- One or two slot mode
- Works with vertically mounted back panel drive

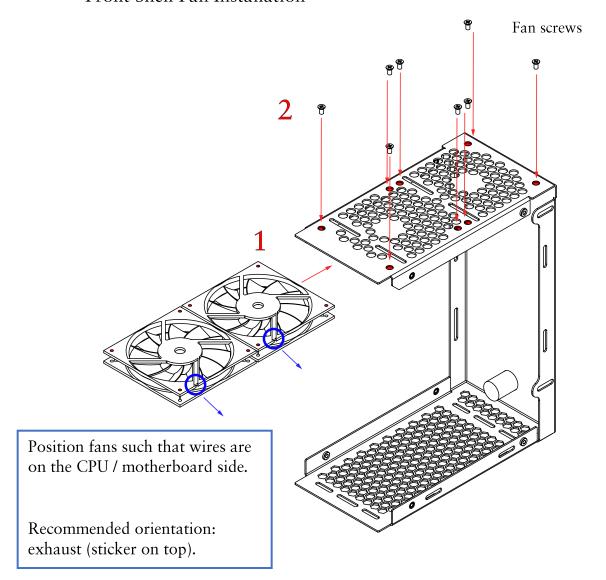


Additional storage option: CPU side mounted drive

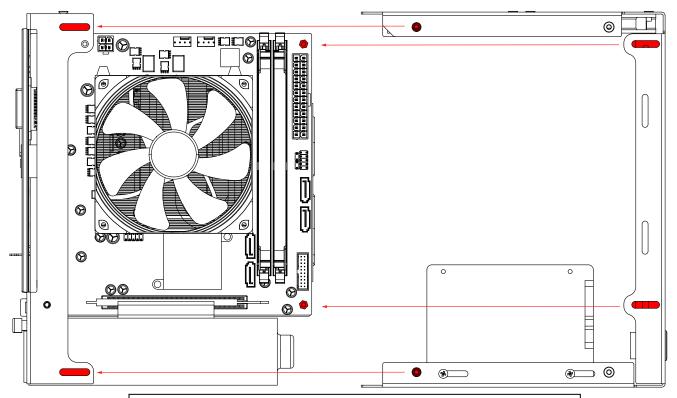
• Compatible with all configurations



Front Shell Fan Installation

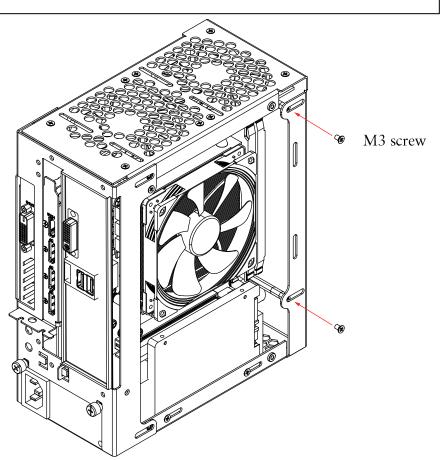


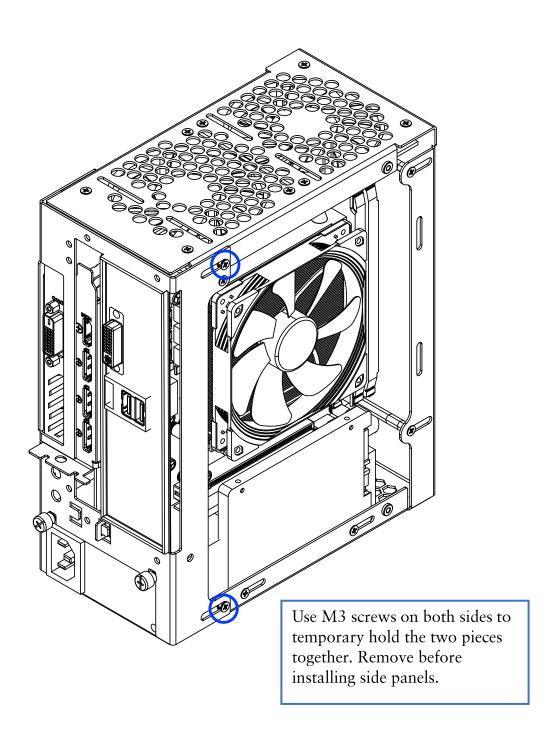
Connecting Front Shell



Connect all cables: power button SATA, fans

Please consult motherboard manual to connect power button





Side Panel Installation

