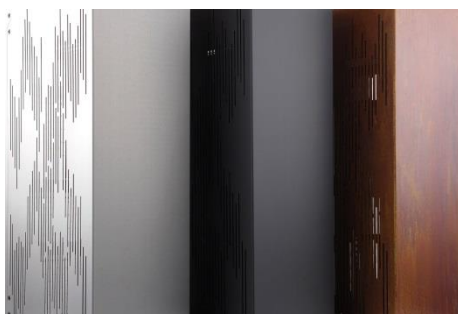# Data Sheet and Build Recommendation
SV590 | 18L Vertical Mini-ITX PC Case for 360mm AIOs and 3-slot GPUs

+ Compact vertical layout takes up less desk space than a sheet of A4 paper
+ Easy access to all motherboard and PCIe card IO ports via removable top panel
+ Rear mounting bracket for one 360mm radiator, or 1x 240mm + one 120mm liquid cooler
+ Three slot GPUs up to 390mm long and 160mm tall
+ Optional bifurcation PCIe riser allows two PCIe 16x cards on a single Mini-ITX motherboard
+ Bracket for 3x 2.5" SSD, bottom mounting pattern for up to 5x more SSDs or 2x 3.5" HDDs
+ Designed and manufactured in the USA by Sliger

Technical Specifications	
Motherboard	Mini-ITX (170 x 170mm)
CPU Air Coolers	Maximum of 55mm tall CPU coolers

Liquid Cooler	1x 360mm radiator
	OR
	1x 240mm radiator + 1x 120mm radiator
	    Maximum Length: 430mm (or up to 450mm with very little room for cables out rear of top)
	    Maximum Width: 149mm
	    Maximum Thickness: 66mm (including fan and radiator thickness)
	Maximum of 55mm tall CPU pump blocks
	Space in bottom of case or between CPU and PSU for short pump/res combos. Custom mounting may be required.

Fan Mounting	Up to 3 120mm fans, or 3 140mm fans with 120mm mounting screw positions
PCIe Cards	Supports one three (3) slot wide card, or with PCIe bifurcation riser 1x 2-slot card and 1x single slot card

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	Maximum card height: 160mm Maximum card length: 390mm (290mm with 3.5" HDD or 324mm with 2.5" SSDs in case bottom) Maximum card width: 68mm Note that the PCIe card is mounted behind motherboard on a PCIe 3.0 16x flexible ribbon riser Bifurcation riser limits the outer PCIe 16x 2.0 card to 2 slots wide, and inner slot to a single slot card. Bifurcation outer slot maximum card width: 47mm
Storage	(3x) 2.5" SSD/HDD mounting points on bracket between CPU and PSU Optional (4x) 2.5" SSD/HDD mounting in bottom of case [restricts GPU length to 324mm] Optional (2x) 3.5" HDD mounting in bottom of case [restricts GPU length to 290mm]
Front connection	Currently not available
Security	1x Kensington Lock Cutout
Power Supply	SFX SFX PSU are available up to 750W, with 1000W units available Q1 2020 SFX-L is supported; however, it is a very tight fit and not recommended.
Material	Chassis: Galvanized Steel Side Panels: Cold Rolled Steel Base Plate: Cold Rolled Steel with black adhesive SBR feet
Finish	Powder coating
Outside Dimensions	Case Body: 154mm x 247mm x 472mm (WxDxH) Base Plate: 218,8mm x 284,8mm x 2,64mm (WxDxH)
Weight	6,33 kg (Base configuration)
Volume	17,95 Liters
Rev Control	SV590-A (11/25/19 - X/X/XX) Initial Release

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Info	
Manufacturer	**Importer**

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Sliger Designs Inc. and Density Labs s.r.o. declare that this equipment is in compliance with Low Voltage Directive 2014/34/EU according to the standard EN 62368-1:2014. Copy of the original declaration may be obtained at info@density.sk.