

Z490 Server Parts List and Cost

The parts used in the Z490 server build for OMV are all brand new. This entire system could have been built for much less if I sourced the parts out better or bought used parts. This build (just like any build) is completely subjective to whatever the use case may be. I plan to use this for Emby streaming and several other docker services. It will do the job just fine.

Case:

[Rosewill RSV-L4412U 4U Rackmount Server Chassis](#)

This case has 12 SATA hotswap bays and tons of room for cable management. It fits a wide range of motherboard sizes. Maximum holding: 12" x 13" E-ATX; 12" x 9.6" ATX, 11.2" x 8.2" Mini-ATX. It has 2 front USB ports. 1 x USB 3.0 and 1 x USB 2.0.

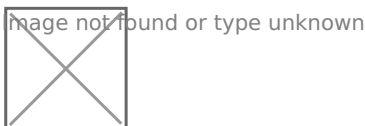
Price: \$359 plus tax and shipping. Total \$381.55



Motherboard:

The motherboard was [bundled with the CPU](#) when I bought it. ASUS Prime Z490-P Micro ATX. It only has 4 on board SATA ports. Supports up to 128GB RAM with an LGA 1200 CPU socket. Dual M.2 slots, 11 DrMOS power stages, HDMI, DisplayPort, SATA 6 Gbps, 1 Gb Ethernet, USB 3.2 Gen 2, Thunderbolt 3 support.

Price: Motherboard and CPU bundle was \$369.99 plus tax. Total \$392.19



CPU:

Intel Core i5-10600K. 6 Cores, 12 threads up to 4.8 GHz Unlocked. LGA1200 socket. Again part of a [bundle on Amazon](#).

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CPU Cooler:

Noctua NH-L9i. Ultra-compact low-profile cooler with only 37mm total height – ideal for HTPCs, ITX and Small Form Factor builds.

Price: \$44.95 plus tax. Total \$48.22

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RAM:

[Crucial 32GB Kit \(16GBx2\) DDR4 2666](#)

Price: \$164.98 plus tax. Total \$174.88

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SATA Controller:

[Rivo PCIe 6 Port SATA Card](#) with 6 SATA Cablesx2. Fully programmable on-chip transceivers support SATA, at 6 Gb/s and are backward compatible to 1.5 Gb/s and 3 Gb/s. Built-in support for SATA Port Multipliers with FIS-based switching ensures maximum performance. Provide a one-lane PCIe 2.0 interface and SATA controller functions.

Price: \$66.88x2 plus tax. Total \$141.78

PSU:

[Seasonic PRIME Fanless TX-700](#). 700 watts, 80 PLUS TITANIUM, FULL MODULAR, 12 YEAR WORRY-FREE WARRANTY.

Price: \$264.99 plus tax and shipping. Total \$288.88

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Total price: \$1,427.50

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