

Generic Hardware

If you're running Dataplane 2.0 on your own hardware, use the guide below to select the right configuration for your network's throughput needs.

Target Throughput	Recommended CPU	Memory	Operating System
Up to 7 Gbps	Intel Core i7-7700 (or equivalent)	16 GB	
Up to 20 Gbps	Intel Core i7-14700 (or equivalent)	64 GB	
Up to 50 Gbps	Intel Xeon Gold 6252N (or equivalent)	96 GB	Fedora 42 or CentOS 10
Up to 100 Gbps	AMD EPYC 9454P (or equivalent)	256 GB	

Network Interface Cards: All configurations require a compatible NIC. See [NIC Requirements](#) for supported models and firmware versions.

Choosing the Right CPU

When comparing CPUs, focus on **physical core count** – is listed as "CPU cores" in most spec sheets. Avoid confusing this with "threads," which refers to logical cores and varies based on hyper-threading.

Using a newer Intel processor with Performance and Efficiency cores (like the i7-14700)?

For 20 Gbps throughput, we recommend at least **8 Performance (P) cores** and **12 Efficiency (E) cores**.