

ARRAY SERVER HARDWARE REQUIREMENT

Array Server works with the client software (Array Viewer or Array Studio) to provide structural data repository, search and integration. To maximize the user experience, Omicsoft recommend the following hardware configuration for our server customers.

Item	2-5 concurrent users	6-10 concurrent users	10+ concurrent users
Operation system	Any major OS	Windows or Linux	Windows or Linux
Required windows version (for windows server)	Windows 2000 or above	Windows 2000 or above	Windows 2000 server or above
CPU	1-4 CPUs (1.8G+)	4-8 CPUs (1.8G+)	8-16 CPUs (1.8G+)
Memory ¹	2G+ ¹	3G+	4G+ recommended
Storage type	IDE 5400+ rpm ² or file server	File server recommended	File server recommended
Storage space	100G+ * 2 ³	200 GB+ * 2	400 GB+ * 2
Networking ⁴	1 GbE NIC	1 GbE NIC	1GbE NIC

¹ Memory required was first dependent on the numbers of platforms, then dependent on the projects on the server

² Most of the 10k+ rpm IDE hard drives (or SCSI drives) have a maximal capacity 400GB.

³ 2 hard drives are required for backup purpose. We suggest a backup at least every week. If one hard drive fails, it only takes one simple configuration change to connect the server to the other hard drive.

⁴ Networking speed between server and clients are largely dependent on the server upload/download speed.

Other suggestions:

1. The performance of the server was largely determined by the I/O speed. Therefore, we **do not** recommend USB external hard drives. Local hard drives or file servers are strongly recommended. File servers with parallel I/O support will have the best performance
2. We recommend incremental backup because most of the data managed by the server will not be changed after publishing