Component	Tower server minimum specification
Chassis / Form Factor	Tower server, single-socket, with support for at least 3 × 3.5" drive bays + 1 SSD bay/slot
CPU	1 × Server-class CPU, minimum 4 cores / 4 threads (vendor to specify exact model)
Memory	16 GB DDR5 ECC UDIMM (1 × 16 GB)
Primary Storage (Data)	2 × 4 TB 3.5" HDD (enterprise-grade, SATA or SAS)
Boot / OS Storage	1 × 500 GB SSD (2.5" SATA)
Storage Controller	**Hardware RAID controller** (mandatory), supporting SATA/SAS drives; must support RAID 1 for HDDs and independent SSD boot drive
Network Interface	At least 2 × 1 GbE Ethernet ports (RJ-45)
Power Supply	Single AC power supply (approx. 300 W or equivalent), suitable for tower server
Remote Management	Integrated remote management (IPMI / BMC / equivalent) for monitoring and maintenance
Warranty / Support	1 year minimum