



Cluster In A Box

Mission-critical, Enterprise Storage at an Affordable Price designed with SMARTS: Security, Manageability, Availability, Reliability, (lower) TCO, and Scalability

Ready-to-deploy partner solution certified for NexentaStor4 compatibility

Clustered nodes and shared storage design offers high density, high availability, simplified cable management, and energy savings

KEY HARDWARE FEATURES

- Cluster-in-a-Box (CiB): Dual clustered Intel x540 10GbE server nodes sharing 12 disk drive bays
- Both nodes share the same in-chassis storage space, offering space and complexity reductions compared to traditional clustered solutions that require external shared disk enclosure, numerous network cables, and complex system configurations.
- Two server nodes are interconnected with a heartbeat SAS and Ethernet channels configurable for active/active operation
- Internal Storage: 2 x 2.5" internal HDDs for OS installation per node
- Hot-swappable modules for all active components
- Easily expanded via built-in SAS expansion ports or add-on cards



KEY SOFTWARE FEATURES

- High performance all flash, hybrid and all HDD storage for deep VMware, Hyper-V, OpenStack and CloudStack integration
- Large namespace and high performance file repositories for streaming applications
- Block and file storage for Enterprise Applications
- Inline compression and deduplication
- Advanced 256-bit checksum copy-on-write combined file system and logical volume manager, designed with focus on data integrity
- Built-in self-healing protection against data corruption caused by bit rot, current spikes, firmware bugs, parity and drive errors, continuous integrity checking and automatic repair capability
- Scales from 10's of TBs into PBs range per cluster
- High performance autotiering
- Unlimited snapshots and replication functionality
- SMB2.1, NFSv3 and native NFSv4 ACLs for NAS operations
- iSCSI and FC support for block level access protocols
- Mature SDS product, proven at 1000's of customer deployments



**CLUSTER IN A
BOX (QUANTA)**

	Entry Level	Entry Level HA	Mid Range DC		Large DC	
CHASSIS	asdf-826e26	Quanta 2U	Quanta 2U + M4240H	Quanta 2U + M4240H	Quanta 2U + M4600H	Quanta 2U + 2xM4600H
MODEL	NovaStor N-1000	NovaStor N-3000	NovaStor N-5000	NovaStor N-5500	NovaStor N-7000	NovaStor N-7500
RAW CAPACITY	16TB	16TB	40TB	64TB	128TB	240TB
WRITE IOPS	100000	100000	100000	100000	200000	400000
READ IOPS	40000	40000	40000	40000	80000	160000
FORM FACTOR	2U	2U	6U	6U	6U	10U
			JBOD	JBOD	JBOD	2 JBODs
HA	No	Yes	Yes	Yes	Yes	Yes
STORAGE PROTOCOLS	FC, iSCSI, NFS v3/v4, CIFS/SMB					

**CLUSTER OUT
OF A BOX
(SUPERMICRO)**

	Entry Level HA	Mid Range DC	Large DC			Hyper-Dense DC
CHASSIS	2x213ltq + 2x826e26JBOD	2x213ltq + 2x826e26JBOD	2x213ltq + 2x847e26jbod	2x213ltq + 4x847e26jbod	2x213ltq + 6x847e26jbod	2x213ltq + 8x847e26jbod
MODEL	NovaStor N-2000	NovaStor N-4000	NovaStor N-4500	NovaStor N-6000	NovaStor N-6500	NovaStor N-8000
RAW CAPACITY	40TB	54TB	170TB	348TB	520TB	1440TB
WRITE IOPS	200000	200000	400000	400000	800000	N/A
READ IOPS	40000	40000	40000	80000	80000	N/A
FORM FACTOR	8U	8U	12U	20U	28U	36U
	2 JBODs	2 JBODs	2 JBODs	4 JBODs	6 JBODs	8 JBODs
HA	Yes	Yes	Yes	Yes	Yes	Yes
STORAGE PROTOCOLS	FC, iSCSI, NFS v3/v4, CIFS/SMB					

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