NEXSAN
A StorCentric Company

E-SERIES 18F & 32F

QLC-BASED STORAGE WITH UNBEATABLE ECONOMICS

A perfect fit for quick access to high capacity, performance-sensitive workloads.

TACKLES YOUR TOUGHEST STORAGE CHALLENGES

The E-Series storage platform has been deployed in the most demanding enterprise environments offering unrivaled price and performance, robust connectivity options (FC, iSCSI) for seamless interoperability along with a robust qualified OS support matrix. The E18F and E32F fit the bill for diverse capacity, performance, and ease of expansion.

THE QLC ADVANTAGE - ULTIMATE PERFORMANCE & RELIABLITY

The E-Series F storage platform takes the same industry proven, reliable storage architecture and employs the latest QLC NAND technology. The E18F and 32F enable 10X performance over HDDs with industry leading flash price/performance. The E32F is the most compact, high density QLC SSD solution on the market with 245TB in just 2U and if configured with TLC SSD drives, the compact array holds an incredible 491.5TB in the same 2U of rack space.

The E-Series F is a perfect fit for quick access to analyze the high capacity, performance-sensitive workloads that fuel business — like real-time analytics, machine learning, artificial intelligence, big data, media content delivery, user authentication, and more.

QLC NAND DOES MORE FOR YOUR ENTERPRISE

QLC (quad-level cell) NAND packs 33% more data into every memory cell compared to it's TLC (triple-level cell) equivalent at a much more reasonable price point. QLC storage delivers the perfomance results with less disks and 3X less read I/O power consumption per drive compared to similar-capacity HDDs.

IDEAL APPLICATIONS FOR E-SERIES 18F WITH QLC NAND

Real-Time Analytics and Big Data	Get a performance uplift for the big data "back end" and deliver more value with high-capacity storage that's affordable and blazing fast.
Business Intelligence	Mine massive data sets using faster, deeper queries - letting you build more responsive and detailed analytics for better insights.
Read-Intensive Artificial Intelligence (AI)	Get the kind of speed that AI Algorithms depend on to quickly identify patterns in large data sets with fast, high-capacity storage.
Machine and Deep Learning	Support your machine learning initiatives with quick access to the data sets with high availabilit and low latency for analytics.
Content Delivery, Video on Demand, Content Streaming	Deliver more content or video to more users more consistently with support for massive parallel requests and streams.
NoSQL Databases	Breathe fresh life into data-driven workloads like content classification and tagging as well as user profile acceleration.

E-SERIES F SPECIFICATIONS

Category	Feature	E-SERIES 18F	E-SERIES 32F
ENTERPRISE FEATURES	Active Drawer Technology™	Drives remain active when drawer is open for easy hot-swappable drive management.	
	Cool Drive Technology™	Optimizes air flow and component cooling to increase reliability.	
	AutoMAID® Power Management	Power savings of up to 87% reduces operating expenses and extends the overall life of the system.	
	Array-based Snapshots and Replication	Snapshot and replication are embedded into E-Series for application-consistent snapshots and asynchronous replication to support demanding data protection requirements.	
	Key Third Party Integrations	Windows, VMware, Veeam, Commvault, Hyper-V and Xen	
	E-Flex Architecture	Enables the selection of up to 2 E-Series expansion systems or a mix thereof: E18X | E32X | E48X | BT60X	
	High-Speed Replication via 10GbE iSCSI	Enables fast data replication while maintaining full host performance via 16Gb FC or 10GbE	
	Performance	Up to 70,000 IOPs	
STORAGE ENCLOSURES	Disk bays | Rack U	18 | 2U	32 | 2U
	Number of Active Drawers	2	
	Expansion Unit	E18X | E32X | E48X | BT60X	
	Maximum Drives with Expansion	138	152
	Maximum Raw Capacity (chassis | total)	276.4TB | 2.11PB	491.5TB | 230.4PB
	Max Cache per Controller	36GB	
STORAGE MEDIA	2.5" QLC SATA SSD (TB)	1.92 | 3.84 | 7.68	
	2.5" SSD 1DWPD (TB)	1.92 | 3.84 | 7.68 | 15.36	
HOST CONNECTIVITY	Simultaneous Fibre Channel and iSCSI	Y	
	1Gb iSCSI Ports per Controller	4	
	10Gb iSCSI Ports per Controller (optional)	2	4
	16Gb | 32Gb FC Ports per Controller (optional)	2 | 2	4 | 2
	10/100/1000 MbE Management Port	1 Per Controller	

ABOUT NEXSAN, A STORCENTRIC COMPANY

Nexsan® is a global enterprise storage leader since 1999 delivering the most reliable, cost-effective and highly efficient storage solutions. Nexsan's solution portfolio empowers enterprises to securely store, protect and manage valuable business data with a broad product line of all-flash NVMe, unified storage, block storage, and secure archiving. Nexsan is a proud member of the StorCentric Family. www.nexsan.com.

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