ENHANCED NETWORK STORAGE SERVER

EYENOR®

ENR-16000-ED/ENR-16000-EDX/ENR-16000-EDF/ENR-16000-EDT

FEATURES

Dynamic Storage Solution
Unified FC & iSCSI connections for SAN and/or NAS in the same storage
On demand expansion Support
Advanced Storage Service Support
Flexible 1/10Gbe and optional 8/16G FC, with 12G/6G SAS and 6G SATA backward compatible
Fully tuned RAID expansion for video surveillance applications
Cache Guard Data Protection
Predictive Data Migration (PDM)

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SPECIFICATION

MODEL	Model No.	ENR-16000-ED	ENR-16000-EDX	ENR-16000-EDF	ENR-16000-EDT
	Type	Enhanced Network Storage Server			
CONTROLLER FEATURES	Drive Support	Up to 16 3.5" drives			
		6/12 Gb SAS, 6 Gb SATA HDD2 and SSD			
		Supports any mix of SAS and SATA drives simultaneously in the same enclosure			
	Memory	8GB x 1 per ctrl (up to 64GB)			
	Controllers	Dual			
	Host Connectivity per Ctrl	1x Quad port 1GbE	1x Quad port 1GbE	1x Quad port 1GbE	1x Quad port 1GbE
			1x Dual port 10GbE SFP+	1 X Quad port 16GB FC	1x Dual port 10GBASE-T
OPERATIONAL FEATURES	RAID Levels	0, 1 , 5, 6, 10, 50, 60			
	RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB			
	Hot Spares	Global or dedicated with revertible option			
	Max pool per System	Advance pool: 32	Standard pool: 32		
	Max Volumes per System	Advance pool: 1024	Standard pool: 991		
	Max Volumes per Pool	Advance pool: 256	Standard pool: 31		
	Advanced Storage Features	• Advanced Cache Mirroring over PCIe Gen3 • LUN Masking and Mapping • Asymmetric LUN Unit Access (ALUA) • PerfectFlash - Non-Disruptive Software Update		• I/O performance & power monitoring tools • USB Service Log • Data Services(optional): Thin-provision Snapshot, Thin Clone, SSD Caching, Pair Management, Remote Thickclone, Cloud Backup and WORM	
	Background Activities	• Media Patrol • Foreground Initialization • Redundancy Check • Feature rich task scheduler for background activities		• Background Synchronization • Rebuild • Disk SMART Polling • UPS Monitoring	
	Perfect RAID Features	• Predictive Data Migration (PDM) • Intelligent Bad Sector Remapping • SMART Error Handling		• NVRAM Error Logging • Disk Slot Power Control	
	SAN Protocol	• 8/16G FC ; Max 256 Sessions per port		• 1/10G iSCSI ; Max 1024 Sessions per controller	
	Storage Expansion per Ctrl	1 x one 12Gb SAS Mini-SAS (SFF-8644)			
	Management per Ctrl	1 x RJ-45 1Gb Ethernet and 1x RJ11 Serial Port			
	GreenRAID Features	• Four levels of advanced power management disk drive (MAID) support		• Ecient 80Plus Certied Power Supply	
NAS FEATURES	Supported Network Protocols	SMB/CIFS (Windows, MAC), NFS (Linux/Unix), FTP, WebDAV			
	Max. NAS Share	1024 per pool			
	NAS Share Size	1PB			
	Concurrent Sessions / Memory	256 for each protocol /32GB, 128 for each protocol /16GB			
	Max. Account	10K			
	Supported Domain	Microsoft Active Directory, LDAP, Apple Open Directory			
	Max. Domain Account	100k			
	Data Management	Permission Management, Quota Management, Online Expansion			

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SPECIFICATION

	Model No.	ENR-16000-ED	ENR-16000-EDX	ENR-16000-EDF	ENR-16000-EDT
MODEL	Type	Enhanced Network Storage Server			
SYSTEM MANAGEMENT	Management Interfaces	• Web Based management using WebPAM PROe (Ethernet) • Third Party Management Support via SNMP • Command Line Interface (CLI)			
	Supported OSs	Windows Server 2008, 2012, 2016, OS X 10.x, RHEL 6.5, 6.6, 6.7, and 7.2, SLES 11, 11 SP4, and 12 SP1			
	Software Certication	Vmware ESXi 6.7, Citrix Server 7.4, Windows Server 2012 R2			
GENERAL	Power Supply	CRPS 550W ; Eciency 80PLUS Certied Redundant Power Supply			
	Voltage	AC: 100-240VAC; DC: 180-320VDC Auto-Ranging			
	Current	< 8A@100-240VAC@full load; < 8A@180-320VDC@full load			
	Power Conversion Eciency	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range			
	Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 60°C			
	Humidity	Operational: 20% to 80% (Non-Condensing), Non--Operational: ~ 95% (Non-Condensing)			
	Acoustic Noise Levels	< 60dB, 25C			
	Shock	Operational: 5G, 11 ms duration, Non-Operational: 30G, 11ms duration			
	Vibration	Operational: 0.2G, 5 to 500Hz (sine wave) ; 0.41G, 3-10-200-500Hz (Random) , Non-Operational: 1G, 5 to 500Hz (sine wave) ; 2.256G, 5-80-350-500Hz (Random)			
	Dimensions	131 x 446.7x 507mm			

ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENR-16000-ED	3U 16 HDD Bays Dual controller (without HDD) Enhanced Network Storage Server with 1x Quad port 1GbE Host Connectivity per Ctrl.and RAID (0, 1 , 5, 6, 10, 50, 60) Support	1
ENR-16000-EDX	3U 16 HDD Bays Dual controller (without HDD) Enhanced Network Storage Server with 1x Quad port 1GbE , 1x Dual port 10GbE SFP+ Host Connectivity per Ctrl.and RAID (0, 1 , 5, 6, 10, 50, 60) Support	1
ENR-16000-EDF	3U 16 HDD Bays Dual controller (without HDD) Enhanced Network Storage Server with 1x Quad port 1GbE , 1 X Quad port 16GB FC Host Connectivity per Ctrl.and RAID (0, 1 , 5, 6, 10, 50, 60) Support	1
ENR-16000-EDT	3U 16 HDD Bays Dual controller (without HDD) Enhanced Network Storage Server with 1x Quad port 1GbE , 1x Dual port 10GBASE-T Host Connectivity per Ctrl.and RAID (0, 1 , 5, 6, 10, 50, 60) Support	1

PACKING INFORMATION

Part Number	Packing Mode	Gross Weight (kg)	Dimension (mm)
ENR-16000-ED	Carton Box	-	131 x 446.7x 507
ENR-16000-EDX	Carton Box	-	131 x 446.7x 507
ENR-16000-EDF	Carton Box	-	131 x 446.7x 507
ENR-16000-EDT	Carton Box	-	131 x 446.7x 507