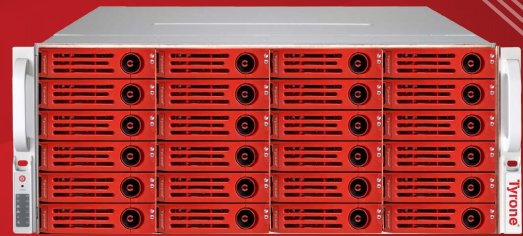# Tyrone® VERTA

Verta D4ZC-24S

Simplicity and flexibility to scale.

The era of having multiple units for different storage needs is passing, as diverse storage products prevent optimum utilization and can be difficult to manage. Verta series from Tyrone Systems, consolidates all your storage requirements.

SCALABLE Storage capacity can be easily scaled in Verta by adding JBOD units to the primary storage.	**EASY MANAGEMENT** VERTA provides interactive and easy management through web-based GUI management	**HIGHLY SECURITY** Provides high-level data protection and redundancy.	**SYNC** Helps to validate data recoverability.
HIGH OPTIMIZATION Consumes fewer resources than managing tape media requires.	**HIGHER PERFORMANCE** More data can be managed with less infrastructure.	**EASY BACKUP** Enhanced backup and recovery with an easy disaster recovery strategy.	**COST OPTIMIZATION** Uses less energy and has a low operational cost.

Clients Supported	Windows, MAC OS, Linux, FreeBSD, Solaris
File Protocols	SMB, NFS, AFS, FTP
Block Protocols	iSCSI Target, FC Target, SRP Target
Host Interface(s)	Bundled: 4 10G Ethernet ports, 1 x Management port (per controller) Optional Add-ons 4 or 8 GbE (RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) 4 10G (SFP+/RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) 4 25G (SFP28) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) 2 100G (QSFP) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) 2 or 4 16G Fibre-channel ports (FCP) 2 100G (QSFP) InfiniBand ports (SRP or IPoverIB)
Management	Web based GUI for management Hardware monitoring, SNMP Support
Advanced Features	Supports SSD Caching (Optional upgrade), Built-in Snapshot with rollback Snapshot, High Availability, File System with Journaling support, Inbuilt user authentication, Support for ADS & NIS, Support for Volume Replication De-duplication & Compression (Optional upgrade)
System Physical Specification	CPU (Default 1) Intel Xeon processor (10 cores) Memory 64GB DDR4 ECC memory RAID LEVEL 0, 1, 5, 6, 10, 50 & 60 HDD Bays 24 LFF/SFF HDD Type SATA/SAS HDD/SSD Max Expansion 4U P. Supply 1U 1280W Redundant Platinum power supply

Features	Detailed Specifications
Form Factor	4U 24-bay
Controller	Single
System Memory (per node)	12/16 DIMM slots
Host Board	Onboard host ports: 4 10G Ethernet ports(Per controller); 1 x Mgmt port (Per Controller) - 4 or 8 GbE (RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) - 4 10G (SFP+/RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) - 4 25G (SFP28) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI) - 2 100G (QSFP) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI - 2 or 4 16G Fibre-channel ports (FCP) - 2 100G (QSFP) InfiniBand ports (SRP or IPoverIB)"
Max. Drives Number	Up to 500 HDDs/SSDs using add-on JBODs
Drive Interface	12Gb/s SAS
Supported Drives	SAS/SATA LFF/SFF HDDs/SSDs
Drive Advanced Features	S.M.A.R.T. support
RAID Options	RAID 0,1,5,6,10,50 & 60
Advanced Features	Default software features include: - SED (self-encrypting drives) - Snapshot: 64 per source volume, 128 per system - Remote replication (file-level) Optional features: SSD cache
OS Support	Windows, Linux, MAC OS, FreeBSD, Solaris
Power Supply Unit	1U 1280W Redundant Platinum power supply
Management	User account management - ADS- Web-based management UI - NIS- System Health monitoring
Notification	Email, SNMP
Protocol Support	File-level protocol: SMB, NFS, FTP, AFP Block-level protocol: iSCSI, FCP, SRP"
Environmental Specifications	Storage temp: -40ºC ~ 70ºC / op. temp: 5ºC~ 35ºC / Storage op. humidity: 8%~90%
Packaging Size (W x D x H)	mm: 871 x 673 x 343 / inches: 34.3 x 26.5 x 13.5
Weight (without HDDs)	Kgs: 39"
Mounting	Rail Kits Included

1: The protocols are interface specific and not all protocols work with all interfaces_e.g. FC target requires FC ports. Not all protocol options are available for all clients e.g. SRP is not available for MAC OS.
2: Not all host interfaces combinations are available. For e.g. it is not possible to have 12 Gigabit ports + 4 10G ports in the same unit.
3: SSD acceleration uses up to 4 HDD bays for populating SSDs reducing the number of available bays.

Tyrone®

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