

# Tyrone® VERTA

Verta D4ZC-24D



*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.

<b>Clients Supported</b>	Windows, MAC OS, Linux, FreeBSD, Solaris
<b>File Protocols</b>	SMB, NFS, AFS, FTP
<b>Block Protocols</b>	iSCSI Target, FC Target, SRP Target
<b>Host Interface(s)</b>	Bundled: 2 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)
<b>Management</b>	Web based GUI for management Hardware monitoring, SNMP Support
<b>Advanced Features</b>	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)
<b>System Physical Specification</b>	CPU (Default 1) Intel Xeon processor (20 cores per controller) Memory 128GB DDR4 ECC memory per controller 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 1300W 1+1 redundant power supply 80+ Platinum.



Features	Detailed Specifications
<b>Form Factor</b>	4U 24-bay
<b>Controller</b>	Dual-redundant
<b>System Memory (per node)</b>	12 x DIMM slots support: ( Per Controller ) 2666/2400MHz RDIMM/LRDIMM
<b>Host Board</b>	Onboard host ports: 2 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)"
<b>Max. Drives Number</b>	Up to 500 HDDs/SSDs using add-on JBODs
<b>Drive Interface</b>	12Gb/s SAS
<b>Supported Drives</b>	SAS/SATA LFF/SFF HDDs/SSDs
<b>Drive Advanced Features</b>	S.M.A.R.T. support
<b>RAID Options</b>	RAID 0,1,5,6,10,50 & 60
<b>Advanced Features</b>	Default software features include: - SED (self-encrypting drives) - Snapshot: 64 per source volume, 128 per system - Remote replication (file-level) Optional features: SSD cache
<b>OS Support</b>	Windows, Linux, MAC OS, FreeBSD, Solaris
<b>Power Supply Unit</b>	1300W 1+1 redundant power supply 80+ Platinum.
<b>Management</b>	User account management - ADS- Web-based management UI - NIS- System Health monitoring
<b>Notification</b>	Email, SNMP
<b>Protocol Support</b>	File-level protocol: SMB, NFS, FTP, AFP Block-level protocol: iSCSI, FCP, SRP"
<b>Environmental Specifications</b>	Storage temp: -10°C ~ 60°C / op. temp: 0°C~ 35°C / Storage op. humidity: 5%~95%
<b>Packaging Size (W x D x H)</b>	mm: 438 x 705 x 174.5 / inches: 17.2 x 27.7 x 8.8
<b>Weight (without HDDs)</b>	Kgs: 57"
<b>Mounting</b>	Standard : 28" slide rail

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.



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