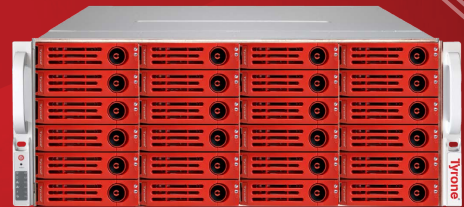# Tyrone® VERTA

## Verta D4ZC-36S

*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)<br>Optional Add-ons<br>4 or 8 GbE (RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>4 10G (SFP+/RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>4 25G (SFP28) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>2 100G (QSFP) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>2 or 4 16G Fibre-channel ports (FCP)<br>2 100G (QSFP) InfiniBand ports (SRP or IPoverIB) |
| **Management** | Web based GUI for management<br>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)<br>Memory           64GB DDR4 ECC memory<br>RAID LEVEL      0, 1, 5, 6, 10, 50 & 60<br>HDD Bays         36 LFF/SFF<br>HDD Type         SATA/SAS HDD/SSD<br>Max Expansion  4U<br>P. Supply          1U 1280W Redundant Platinum power supply |

| Features | Detailed Specifications |
|---|---|
| Form Factor | 4U 36-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)<br>- 4 or 8 GbE (RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>- 4 10G (SFP+/RJ45) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>- 4 25G (SFP28) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI)<br>- 2 100G (QSFP) Ethernet ports (SMB/NFS/FTP/AFP/iSCSI<br>- 2 or 4 16G Fibre-channel ports (FCP)<br>- 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:<br>- SED (self-encrypting drives)<br>- Snapshot: 64 per source volume, 128 per system<br>- Remote replication (file-level)<br>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<br>- ADS- Web-based management UI<br>- NIS- System Health monitoring |
| Notification | Email, SNMP |
| Protocol Support | File-level protocol: SMB, NFS, FTP, AFP<br>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: 691 x 442 x 1006 / inches: 27.2 x 17.4 x 39.6 |
| Weight (without HDDs) | Kgs: 46" |
| 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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