

## Titan T2000/T2000x

Affordable, entry-level storage optimized for SAN/DAS



**Titan T2000 delivers all-around simplicity, high-performance and high-capacity entry storage. Ideal for accelerated performance for HPC, Exchange, backup, VDI and many more applications.**

### Key benefits

- Simple, fast, affordable
- Flexibly configures as DAS or SAN, all flash or hybrid storage
- Dual core Intel® Xeon® processors
- Includes dual active/active hot-swappable Intel controllers, iSCSI, Fibre Channel, and SAS protocols
- Support for 2U and 5U expansion enclosure options (Titan 2000x series)

### Simplicity

Titan T2000 provides features that simplify tasks such as system installation, configuration, and serviceability enabling IT generalists to manage resources more efficiently and focus on the bigger picture.

- Simple to order with all-inclusive software
- Customer installable/configurable in 25 minutes
- Intuitive web-based (HTML5) management
- Easily expandable without disruption

### Get all-inclusive enterprise-class capabilities

We deliver all the software you'll need to store, manage, and protect your data:

- **ADAPT (Distributed RAID):** Improved data protection functionality that delivers faster drive rebuild times
- **Thin provisioning:** Allocate and consume physical storage capacity as needed in disk pools
- **Snapshots:** Easily recover data with point-in-time copies
- **Replication:** Replicate data to any global location
- **Volume copy:** Enables seamless volume relocation and disk-based backup and recovery
- **SSD read cache:** Increase execution speed of applications by caching previously read data
- **3-level auto-tiering:** Optimizes data performance with less expense
- **Virtualization integration:** Integrate Titan T2000 arrays with VMware vSphere and vCenter SRM and Microsoft Hyper-V

### Optimized for SAN and DAS

Titan T2000 is purpose-built and optimized for SAN and DAS virtualized workloads. Connecting to a Overland-Tandberg Olympus Servers to address the challenges of server capacity expansion or to a SAN for flexibility and scalability ensures that business applications will always get high-speed and reliable access to their data – without compromise.

- Direct-attach to Overland-Tandberg Olympus Servers over SAS, FC, or iSCSI
- Consolidate SAN storage through a single port over FC or iSCSI

### Protect your data

Keep your valuable information safe with these Titan T2000 features:

- **Remote replication:** Replicate data to any global location that includes mirroring thin provisioned pools
- **Snapshots:** Easily recover files after accidental deletion or alteration with re-direct-on-write snapshot copies
- **Virtual Disk Copy (VDC):** Enable quick and seamless virtual disk relocation and disk-based backup and recovery with a full, replicated copy of source data



Titan T2000 Specifications	
Processor	Intel® 2-core, Xeon® processor
System memory	16GB per Controller
Drive bays	24 x 2.5" HDD/SSD 12Gb SAS
Drive bays max with expansion enclosure(s)	276
Max capacity with expansion enclosures	Up to 4.5PB
Ports per controller (option)	4x 10Gb iSCSI Base-T 4x 10/25Gb iSCSI SFP+ 4x 32Gb/16Gb FC Type-B 4x 12Gb SAS 4 Port
Media types	2.4TB 10K RPM SAS 12Gbps 512e 960GB SSD SAS ISE Read Intensive 12Gbps 512 1.92TB SSD SAS ISE Read Intensive 12Gbps 512 3.84TB SSD SAS ISE Read Intensive 12Gbps 512 7.68TB SSD SAS ISE Read Intensive 12Gbps 512e
Storage (as configured)	4x 960GB SSD SAS Read Intensive 12Gbps 512
RAID support	RAID 0, 1, 5, 6, 10, 50 or Adapt
Max virtual pool size (total usable capacity)	4 PB per controller (8 PB total)
Max volume size	128TB
Supported integrations	VMware® vSphere; Microsoft Hyper-V®; Citrix XenServer
Software	<p>Titan T2000 provides simplified, all-inclusive software licensing, including:</p> <ul style="list-style-type: none"> <li>• ADAPT (Distributed RAID): Functionality enabling affordable capacity expansion &amp; faster drive rebuild times</li> <li>• Thin Provisioning: Allocate and consume physical storage capacity as needed in disk pools. Thin is virtual mode only</li> <li>• SSD Read Cache: Increase execution speed of applications by caching previously read data</li> <li>• IP &amp; FC Remote Replication: Safely replicate data to any global location that includes mirroring thin provisioned pools</li> <li>• Snapshots: Scheduled &amp; on-demand volume, Copy on Write snapshots with rollback &amp; refresh options</li> <li>• 3 Level Tiering: Improve performance and efficiency with less hardware expense</li> <li>• Volume Copy: Seamlessly clone volumes for re-purposing on different spindles and drives</li> <li>• Supported Integrations: vCenter &amp; SRM integration to move live VMs at scale between sites; Automate storage management with SMI-S / SCVMM to run Hyper-V VMs</li> <li>• PowerVault Manager: Native HTML5 management interface for configuring, provisioning, managing, monitoring a single PowerVault ME5 array</li> <li>• CloudIQ: Cloud-native monitoring application that uses ML/AI and predictive analytics from telemetry gathered across thousands of systems to provide system health scores, anomaly detection &amp; proactive remediation</li> <li>• Management Ecosystem: Integrate T2000 with Nagios Core/XI for auto-discovery, inventory, monitoring and provide increased scalability for unified datacenter management with OpenManage Enterprise (OME) integration</li> <li>• SupportAssist: An embedded protocol connected to Dell to help you proactively maintain the health of your storage array or other Overland-Tandberg/Dell hardware; Required for CloudIQ</li> </ul>
Management	PowerVault Manager HTML5 GUI, OME 3.2, CLI
Expansion solutions	Titan T2012X: 2U 12 x 3.5" drive bays (12Gb SAS) Titan T2024X: 2U 24 x 2.5" drive bays (12Gb SAS) Titan T2084X: 5U 84 x 3.5" drive bays (12Gb SAS)
Power	580W, 1980 BTU, 100-240 VAC, 7.6-3.0A (x2), 50/60 Hz
Dimensions (H x W x D)	8.79cm x 44.3cm x 57.6 cm
Weight (w/o drives)	30 kg
Warranty and service options	3Y/5Y ProSupport and Next Business Day Onsite Service 3Y/5Y ProSupport and 4Hr Mission Critical (24x7)

All systems are available in individual configurations (drives, network connectivity, support options).

**Contact us now for your customized offer.**

## T2000x Specifications

Product Name and Model	T2012x	T2024x	T2084x
<b>Chassis</b>	2U Rackmount	2U Rackmount	5U Rackmount
<b>Drive bays</b>	12x 3.5"/2.5" HDD	24x 2.5" HDD/SSD	84x 3.5"/2.5" HDD
<b>Usage</b>	Expansion for T2000 only	Expansion for T2000 only	Expansion for T2000 and servers
<b>Drive interface</b>	12Gb/s SAS		
<b>Storage (as configured)</b>	3x 12TB 7.2K 512e 3.5"	20 x 2.4TB 10K 512e 2.5"	28 x 8TB HDD 7.2K 512e 3.5"
<b>Optional HDD drives</b>	4TB 7.2K 512n 3.5" 8TB 7.2K 512e 3.5" 12TB 7.2K 512e 3.5" 16TB SAS ISE 7.2K 512e 3.5" 18TB SAS ISE 7.2K 512e 3.5" 2.4TB 512e 2.5" 960GB SSD SAS ISE 512 2.5" 1.92TB SSD SAS ISE 512 2.5" 3.84TB SSD SAS ISE 512 2.5"	20 x 2.4TB 10K 512e 2.5" 960GB SSD SAS ISE 512 2.5" 1.92TB SSD SAS ISE 512 2.5" 3.84TB SSD SAS ISE 512 2.5"	4TB 7.2K 512n 3.5" 8TB 7.2K 512e 3.5" 12TB 7.2K 512e 3.5" 16TB SAS ISE 7.2K 512e 3.5" 18TB SAS ISE 7.2K 512e 3.5" 2.4TB 512e 2.5" 960GB SSD SAS ISE 512 2.5" 1.92TB SSD SAS ISE 512 2.5"
<b>External interface (host/expansion)</b>	Dual 4 lane 12Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC) – one for host and one for expansion		
<b>Connector type</b>	SFF-8088 connectors (mini-SAS)		
<b>SAS cable length</b>	2 meters		
<b>Dimensions (H x W x D)</b>	8.79 x 48.3 x 61.9 cm	8.79 x 48.3 x 54.8 cm	22.2 x 48.3 x 98.1 cm
<b>Weight (max)</b>	32 kg	30 kg	135 kg



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