

Teradata Data Mart Appliance

Integrated Data Mart to Meet Your Needs



The Teradata® Data Mart Appliance 550P and the Teradata Database offer a completely integrated data warehouse solution with optimized system performance. This single node platform provides the dependability and high performance you've come to expect with a Teradata solution.

Ideal for meeting entry-level production data warehousing requirements, the Teradata Data Mart Appliance 550P can readily support the need for test and development systems as well. The Teradata Data Mart features up to two industry-leading Dual Core Intel® Xeon® Processors with Extended Memory 64 Technology (EM64T). Dual Core technology enables breakthrough performance for the Teradata Database and all other applications by providing two computing elements in each processor. EM64T provides the capability to run 64-bit-enabled operating systems,

which improves performance by enabling the system to address more than 4GB of memory.

The Teradata Data Mart is a fully-integrated system in a rack cabinet with up to two Teradata 6287 Storage Arrays that can each support up to 32 disk drives in a RAID configuration. The rack cabinet can also include dual uninterruptible power supplies (UPS) that provide graceful shutdown of the Teradata Database during a power loss.

The Teradata Data Mart offers outstanding availability and serviceability with such features as hot-swappable, redundant

power supplies and internal disk drives. With these capabilities, the Teradata Data Mart provides a solid foundation for data warehousing applications.

Your Teradata Data Mart is delivered with the operating system and database software installed and appropriately configured. Due to this integration process, Teradata customers typically can begin loading data and running queries within a short time of initial delivery – and quickly begin reaping business value.

Teradata Data Mart is backed by world-class service and support, delivering the dependability, performance, and peace of mind you need in your business.

Features	Benefits
Dual Core Intel Xeon Processors with Extended Memory 64 Technology	Delivers exceptional performance with Teradata Database
Enterprise-class levels of availability with redundant, hot-swappable power supplies and hard disk drives and integrated RAID storage option	Provides high availability, in the unlikely event of a component failure, and minimizes the downtime for maintenance
Support for Novell® SUSE® Linux Enterprise Server 9 (64-bit) and Microsoft® Windows® Server 2003 64-bit operating systems	Enterprise fit, flexibility, and investment protection through choice of high-performance, 64-bit operating systems
Integrated server and data storage in rack cabinet	Quick deployment and space efficiency for entry-level Teradata solutions and Teradata development platforms
IBM ESCON and FICON connectivity	Connectivity with the enterprise data center

Teradata Data Mart Appliance

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Teradata Data Mart Appliance 550P Description

Processor

- One or two Dual-Core Intel Xeon 5100 Series Processors, 2.66GHz
- 4MB Advanced Transfer L2 Cache
- Extended Memory 64 Technology
- 1333MHz Front Side Bus (FSB)

Memory

- 8GB DDR2 667MHz Fully-Buffered DIMM (FBD) Modules, Registered, ECC

Internal Storage Devices

- Up to four hot-swappable 73GB SAS hard drives (two 73GB drives standard)
- One DVD-RW

Connectivity per Node

- Six PCI slots:
 - Two high-profile 133MHz PCI-X
 - Three low-profile PCI Express (PCIe x4)
 - One low-profile PCI Express (PCIe x8)
- Integrated RAID controller with SAS backplane
- Two on-board Ethernet connections: 10/100/1000T Copper
- Storage Connectivity Adapters
 - 2Gb Quad Fibre Channel for Disk Storage
- Network Adapters
 - Dual port Ethernet 10/100/1000T Copper
 - Dual port 1Gb Fiber (Optical)
- Mainframe Connectivity Adapters
 - IBM ESCON for Teradata Database
 - IBM FICON for Teradata Database

Operating Systems

- 64-bit Novell SUSE Linux
- 64-bit Windows Server 2003

System Description

Storage

- Up to two Teradata 6287 Storage Arrays
 - Up to four drive trays total (two per array) with 16 disk drives per tray for maximum of 64 drives
 - Maximum Teradata user data capacity:
 - 1.2TB with 73GB drives
 - 2.4TB with 146TB drives
- RAID 0, 1, 5 (RAID 1 recommended for Teradata)

Teradata Database

- Certified and integrated with Teradata Database 12.0 and higher software versions
 - Complete Teradata Database features and functions
- Teradata Tools and Utilities available for load and workload management

Cabinet

- Dimensions
 - Height: 77 in. (195.6 cm)
 - Width: 24 in. (62.6 cm)
 - Depth: 40 in. (101.6 cm)
 - Weight: 700 lbs. (350 kg)
- Keyboard and Mouse and Monitor trays
- Front and back doors, removable side panels
- Up to two optional uninterruptible power supply (UPS) units

High Availability Hardware Features

- Cabinet mounted UPS ensures safe shutdown of applications during power failures
- Hot pluggable components: power supplies, UPS batteries, and disks
- Redundant power supplies

External Data Storage and Backup for Data Protection

- Teradata Tape Library, Disk Backup, and Storage Management Products

Operating Specifications

- Operating Temperature: 50°F to 104°F (10°C to 40°C)
- Voltage Range: 208/220/230/240VAC
- Frequency: 50-60Hz
- Current: 15 amperes
- Power: 2500 watts
- Compliant with U.S. and International Safety and Emissions Standards
- RoHS and WEEE compliant

Support Services

Global Support

- Most experienced data warehouse service personnel in the industry
- 24-hour x 365 days availability

Warranty Support

- One-year remote and on-site hardware support, operating system problem resolution
- 24-hour incident reporting

Enterprise System Support

- Delivers quality, one-source support and single point of delivery with each level of service.
- Three flexible support solutions designed to grow, including Base, Enhanced, and Business Critical.
- Integrated proactive tools, such as Teradata Vital Infrastructure and VPN secure remote connectivity.

Teradata Vital Infrastructure

- Built-in support software available on each Teradata Data Mart.
- Regularly collects system asset data.
- Fault event data is recorded, automatic incident reports are created.
- Alert notifications are sent and tracked.

Implementation Services

- Staging Services
- Installation Services

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