

# TERADATA DATA MART APPLIANCE 670

## INTEGRATED DATA MART TO MEET YOUR NEEDS

The Teradata® Data Mart Appliance 670 offers a completely integrated data warehouse solution with cost-effective system performance. Based on a single Teradata node, storage, and the Teradata Database, it provides the functionality, dependability and high performance you expect with a Teradata solution.

Ideal for meeting entry-level production data warehousing and data mart requirements, the Teradata Data Mart Appliance 670 can readily support the need for test and development systems as well. To meet this range of needs two models are available:

- ~ Teradata node with dual Six-Core Intel® Xeon® Processors integrated with a hard disk drive (HDD)-based, high-performance storage array for up to 8TB of user data. This model provides the most cost-effective solution on a per TB basis.
- ~ Teradata node leveraging powerful Eight-Core Intel Xeon Processors integrated with a hybrid storage (both HDD and solid state drives — SSD)-based storage array. This model leverages Teradata Virtual Storage to deliver high performance and consistent query times by optimally placing data based on its temperature in the most appropriate storage device.



## TERADATA DATA MART APPLIANCE FEATURES AND BENEFITS

FEATURES	BENEFITS
Teradata Database	Ideal for use as an entry-level data warehouse, data mart solution, or as a Teradata test/development platform
Six and Eight-Core Intel Xeon Processors	Delivers optimum performance and concurrency with the MPP Teradata Database
Ready to run, integrated data warehouse in a single cabinet	Quick deployment and space efficiency
Hybrid storage featuring temperature based data migration with Teradata Virtual Storage	Exceptional query performance and consistent response times
Support for SUSE® Linux Enterprise Server	Enterprise fit, flexibility, and investment protection with high-performance, 64-bit operating system
Enterprise-class levels of availability with redundant, hot-swappable power supplies and hard disk drives and integrated RAID protected storage	In the unlikely event of a component failure, provides high availability and minimizes downtime for maintenance
IBM ESCON and FICON, 1 and 10Gb Ethernet interfaces	Connectivity with the enterprise data center

Up to three Teradata Data Mart Appliance 670 integrated systems can be mounted in a single rack cabinet or alternatively combined with the flexible Teradata Managed Servers. The cabinet features simplified platform administration, control, and monitoring through the single operational view on the Teradata Server Management Web Services. Teradata Viewpoint also provides an intuitive and easy-to-use interface for managing and monitoring one or more Teradata systems.

Teradata offers outstanding availability and serviceability on the Data Mart Appliance with such features as hot-swappable, redundant power supplies and internal disk

drives. With these capabilities, it provides a solid foundation for data mart applications.

Your Teradata Data Mart Appliance is delivered ready-to-run with the operating system and database software installed and optimally configured. You can begin loading data and running queries within a short time of initial delivery — and quickly begin reaping business value. Teradata Data Mart Appliance is backed by Teradata’s world-class service and support, delivering the dependability, performance, and peace of mind you need.

## TERADATA DATA MART APPLIANCE 670 DESCRIPTION

### TERADATA NODE

#### Processor

- 670C: Dual Six-Core Intel Xeon Processors, 2.0GHz
- 670H: Dual Eight-Core Intel Xeon Processors, 2.6GHz

#### Memory

- Up to 256GB with 1333MHz DDR3 DIMM Modules, Error Checking and Correction, and Single Device Error Correction

#### Internal Storage Devices

- Three hot-swappable 900GB, 10K RPM SAS hard drives
- One DVD-RW

#### Connectivity per Node

- Seven PCI slots:
  - Four full height PCIe3 (one x16 plus three x8)
  - Three low-profile PCIe3 x8
- Integrated RAID controller with internal SAS backplane
- Two on-board Ethernet client connections: 10/100/1000T Copper
- Storage Connectivity Adapters
  - (2) 6GBx4 Quad SAS Adapters for Storage Array

#### Network Adapters

- Quad port Ethernet 10/100/1000T Copper
- Dual port 1Gb Fiber
- Dual port Ethernet 10Gb copper and fiber

#### Mainframe Connectivity Adapters

- IBM ESCON and FICON for Teradata Database

#### Operating Systems

- 64-bit Novell SUSE® SLES 10 Linux

### STORAGE

- NetApp E2600 Storage Array
  - Two drive trays with 24 devices each
  - Up to eight 400GB SSD devices
  - Up to 48 HDD devices: 300-, 450- or 600GB SAS, 10K rpm
- Maximum Teradata user data capacity:
  - 4.2TB to 8TB depending on drive capacity
- RAID 1 recommended with Teradata

### TERADATA DATABASE

- Certified and integrated with Teradata Database 13.10 and higher software versions
  - Complete Teradata Database features and functions available
- Teradata Tools and Utilities available for load and workload management
- Teradata Virtual Storage feature provide automatic temperature-based data migration and management in hybrid storage (SSD and HDD)

### CABINET

- Up to three Teradata Data Mart Appliance systems
- Two Virtual Managed Servers for Viewpoint, server management, and remote services
- Keyboard, mouse, monitor tray
- Up to four Teradata Managed Servers
- Height: 80.5 in. (204.5 cm)
- Width: 24 in. (61.4 cm)
- Depth: 47 in. (119.4 cm); 49 in. (124.4 cm) with doors
- Weight: 1,734 lbs. (786 kg) fully loaded

*Continued*

## HIGH AVAILABILITY HARDWARE FEATURES

- Hot-swappable components: power supplies and disk drives
- Redundant power supplies, RAID data protection

## EXTERNAL DATA STORAGE AND BACKUP FOR DATA PROTECTION (BAR)

- Teradata offers tape library, disk backup, and storage management products

## OPERATING SPECIFICATIONS

- Operating Temperature: 59°F to 89.6°F (15°C to 32°C)
- Voltage Range: North American: 200-240VAC, International: 220-240/380-415VAC
- Frequency: 50/60Hz
- Current: North American: 30A 4-cord or 60A 2-cord, International: 32A 2-cord
- Power: 7,100 Watts Max fully configured
- Dual AC: Standard
- Compliant with U.S. and International Safety and Emissions Standards
- RoHS compliant; WEEE Services available

## SUPPORT SERVICES

### Global

- Regional service centers and in-country local language support
- 24/7 support
- Experienced data warehousing service associates

### Warranty Support

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

### Teradata Premier Support

- Integrated hardware and software maintenance and support
- Secure remote connectivity
- Fast response times and flexible coverage hours (7x24 and 8x5)
- Robust diagnostic capabilities with Teradata Vital Infrastructure
- Easy access to software updates via Teradata @ Your Service
- Proactive system monitoring
- Software release management and installation
- Service and support reporting and reviews
- On-site spare parts

## TERADATA VITAL INFRASTRUCTURE

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

## IMPLEMENTATION SERVICES

- Staging Services
- Installation Services

## OPERATIONAL SERVICES

- Critical System Management
- Data Migration
- Operational Mentoring



10000 Innovation Drive Dayton, OH 45342 [teradata.com](http://teradata.com)

**TERADATA.** | THE BEST  
DECISION  
POSSIBLE™

The Best Decision Possible is a trademark, and Teradata and the Teradata logo are registered trademarks of Teradata Corporation and/or its affiliates in the U.S. and worldwide. Intel, Xeon, and the Intel logo are registered trademarks of Intel Corporation. Windows is a registered trademark of Microsoft Corporation. SUSE is a registered trademark of Novell, Inc. Teradata continually improves products as new technologies and components become available. Teradata, therefore, reserves the right to change specifications without prior notice. All features, functions, and operations described herein may not be marketed in all parts of the world. Consult your Teradata representative or [Teradata.com](http://Teradata.com) for more information.