TERADATA DATA WAREHOUSE APPLIANCE 2750

TERADATA

THE BEST PRICE FOR PERFORMANCE PLATFORM IN THE MARKETPLACE

Teradata Corporation makes taking your first step toward an enterprise data warehouse an easy one with the Teradata® Data Warehouse Appliance 2750. With this enterprise-ready platform from Teradata, you can start building your integrated data warehouse and grow it as your needs expand.
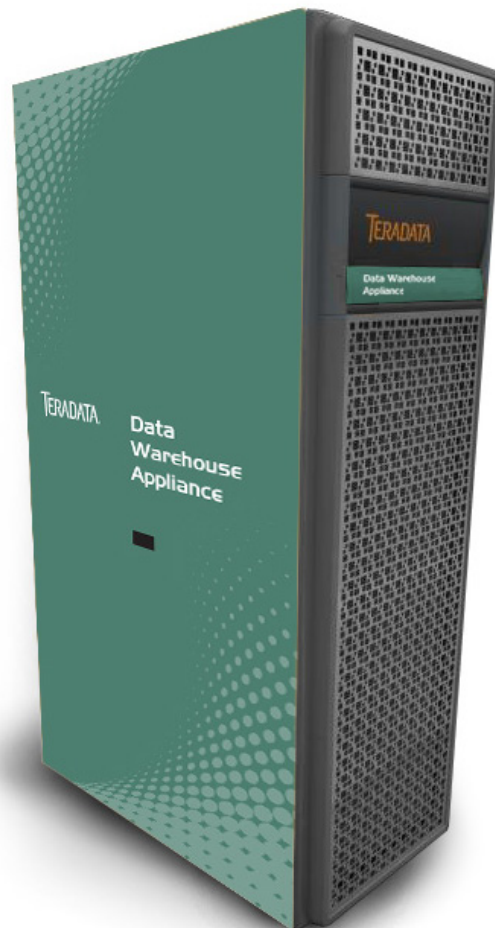
SIMPLE

Delivered ready to run, the Teradata Data Warehouse Appliance is a fully-integrated system that's purpose-built for integrated data warehousing. The Teradata Data Warehouse Appliance features the industry-leading Teradata Database, a Teradata platform with dual Intel® twelve-core Ivy Bridge processors, SUSE® Linux operating system, and enterprise-class storage—all preinstalled into a power-efficient unit. That means you can have the system up and running live in just a few hours for rapid time to value. Best of all, the solution is supported by the most trusted name in data warehousing—Teradata. Plus, this data warehouse appliance was designed to be easy to set up. Your users will be submitting queries after only a few simple steps:

1. Network connect and power up.
2. Log on, and create users and databases.
3. Define tables and load data using a Teradata load utility.
4. Go – start submitting business queries.

POWERFUL

The Teradata Data Warehouse Appliance uses the proven high-performance Teradata Database. Established in hundreds of customer sites around the world, it's the most robust database for analytic data warehousing. This appliance's innovative design is optimized for fast scans and deep-dive analytical analysis. Its software-based, shared-nothing architecture delivers always-on parallelism so even the toughest, most complex queries complete quickly.

Automatic Data Compression

~ 192 parallel compression engines per rack for out-of-the box block level compression on all data.

~ Increased customer data space with no DBA tuning or setup required.

Parallel-Aware Optimizer

~ Automatically designs the fastest query plan.

~ Can rewrite problem queries on the fly and optimize SQL from BI tools to take advantage of unique Teradata Database performance advantages.

High-Performance Settings

Primary indexes, multi-level partitioned primary indexes, and aggregate join indexes provide super-fast results and eliminate the need to scan entire tables.

~ Straightforward execution with one-time definition.

~ No time consuming data or SQL pre-preparation.

~ High throughput BYNET™ V5 on InfiniBand interconnect

Robust Workload Management

~ Integrated Workload Management capabilities greatly enhanced with SLES11.

~ Performance groups assigned to one of four settings: Rush, High, Medium, or Low.

~ If the system is not fully utilized, CPU is automatically made available to lower priority performance groups.

~ Ensures your queries complete in business time.

~ Threshold Exception Actions enable long-running queries to be passed to a lower priority level dynamically based on CPU seconds. This will allow more effective query management.

~ System Filters and Throttles help manage queries, sessions, and utilities.

Advanced Feature Functionality

~ Teradata Columnar for true hybrid row/columnar capabilities that drastically improves query performance and delivers maximum data compression.

~ Teradata Temporal for time-based analytics that allow a customer to track and analyze data in the warehouse that changes over time.

~ Full disk encryption for tamper-proof security on data at rest within the rack.

~ Teradata Intelligent Memory offers automatic temperature based use of large memory for faster access to the most heavily used data.

INTEGRATED ANALYTICS FOUNDATION

The Teradata Data Warehouse Appliance provides an environment that enables agile analytics with incredibly fast parallel processing, scalability to process massive volumes of data, and rich in-database analytic capabilities. Teradata provides a comprehensive set of in-database analytics that leverages the database's speed, while eliminating time consuming and costly data movement.

The analytics range from data exploration, geospatial, temporal, predictive, emerging open source technology, such as R and GeoServer, big data integration, and development environments. In addition, Teradata has collaborated with industry-leading partners to provide unstructured data analytics, visualization, predictive analytics and business intelligence, with highly optimized in-database integrations.

COST EFFECTIVE AND EASY TO MANAGE

The Teradata Data Warehouse Appliance is so easy to manage, you can free up your DBA resources to do other valuable tasks. With virtualized CPU, memory, and storage all designed to work together as a unit, you get automated management of physical disk space so your database administrators never have to worry about data placement or data reorganization.

And the long-term advantages are clear:

~ A single database standard for analytics across your organization—you can eliminate disparate data marts and simplify your organization by standardizing on a single Teradata integrated data warehouse.

~ Leverage your existing resources and tools—with Teradata as your standard for all BI platforms, your DBAs, systems administrators, and application developers can support multiple systems without additional training.

~ Grow from an integrated data warehouse to a Teradata Active Enterprise Data Warehouse platform as your needs evolve by leveraging the same applications, data, data models, table structures, views, queries, and load programs.

COMPLETE SERVICE AND SUPPORT

In addition to hardware and software technology, Teradata offers you a full array of support advantages, including:

~ A single vendor for all your support needs; there's no need for third-party coordination.

~ Industry-certified regional and global Customer Care Centers.

~ Experienced service representatives dedicated to data warehouse support.

~ Tested and proven support processes.

~ Secure remote connectivity options.

A ROBUST SOLUTION

As the industry leader in analytic data warehousing, Teradata has partnered with other world-class companies to provide you with an array of applications and tools to help you get the most value from your data warehouse. Applications and tools from industry innovators, including Attensity™, GoldenGate Software®, Harte-Hanks®, IBM® and IBM Cognos®, Informatica®, Information Builders, KXEN™, MicroStrategy®, Microsoft®, Oracle®, Protegrity, SAP® and SAP Business Objects®, SAS®, TIBCO®, and others, are ready to run on Teradata Database. Since the Teradata Data Warehouse Appliance includes the Teradata Database, you can easily leverage these vendors' tools and applications without any complex integration work.

WHY TERADATA?

Teradata Corporation is the world's leading analytic data solutions company focused on integrated data warehousing, big data analytics, and business applications. Teradata's innovative products and services empower organizations to integrate, analyze, and profit from data for competitive advantage.

FOR MORE INFORMATION

To find out how a Teradata Data Warehouse Appliance can make your entry into data warehousing fast, efficient, and cost effective while you improve your decision-making capabilities and grow a stronger, more productive business, contact your local Teradata representative, or visit **Teradata.com**.

TERADATA DATA WAREHOUSE APPLIANCE 2750 DESCRIPTION

Operating System
- Teradata Database 14.0 or higher version
- SUSE Linux 11

Integrated Cabinet
- Dual Intel® Twelve-Core Ivy Bridge Xeon® processors @ 2.7GHz per node
- Up to 512GB of memory per node
- Teradata BYNET® Interconnect software
- System Management Infrastructure and Teradata Administration
- Optional Teradata Managed Servers, BAR, or Test/ Development in base cabinet

Disk Capacities (All numbers with 0% compression)
- **300GB Drives**
  - Quarter Cabinet – 6.8TB user space
  - Half Cabinet – 13.7TB user space
  - Three-Quarters Cabinet – 20.5TB user space
  - Full Cabinet – 27.4TB user space

- **600GB Drives**
  - Quarter Cabinet – 13.7TB user space
  - Half Cabinet – 27.4TB user space
  - Three-Quarters Cabinet – 41.4TB user space
  - Full Cabinet – 54.8TB user space
- **900GB Drives**
  - Quarter Cabinet – 20.5TB user space
  - Half Cabinet – 41.4TB user space
  - Three-Quarters Cabinet – 61.7TB user space
  - Full Cabinet – 82.3TB user space
- Scalable to more than 21 Petabytes with 900GB drives

The Teradata Data Warehouse Appliance comes with the Teradata tools and utilities you need to build and maintain your data warehouse, including:

- **Management** – Teradata Viewpoint Portlets

- **Data Loading** – Teradata Parallel Transporter Load, Export, Backup, and Update Operators
- **Data Management** – Teradata Meta Data Services, Teradata Administrator
- **Connectivity** – ODBC, JDBC, CLI, OLE DB Provider, .NET Data Provider, Plug-in for Eclipse, Data Connector, Database Export Utility
- **SQL Generation** – Teradata SQL Assistant, Basic Teradata Query Utility (BTEQ)

Teradata Virtualized Management Server
- Single, 1U server for database, hardware, and infrastructure management
- Teradata Viewpoint, Teradata Service Workstation, and cabinet management interface controller
- Provides single operational view to administer the entire MPP system with local or remote system monitoring

TERADATA®

SPECIFICATIONS

Cabinet Specifications

- Height: 80.5 in. (204.5 cm)
- Width: 24 in. (61 cm)
- Depth: 47 in. (119.4 cm)
  - 45 in. (114.3 cm) w/o the front and rear doors
- Weight: 1,790 lbs. (812 kg) fully loaded with crate
- Installed Weight: 2,056lbs. (925 kg) fully loaded w/o crate

Operating Specifications

- Operating Temperature: Allowable: 59°F to 90°F (15°C to 32°C);
  - Recommended: 64.8°F to 80.6°F (18°C to 27°C)
- Relative Humidity: Allowable: 20% to 80% (non-condensing);
  - Recommended: 40% to 55%
- Voltage Range: 200-240VAC with Single Phase; 220 - 240/380 - 415, 3~ +N +PE with three phase international

- Frequency: 50Hz/60Hz
- Current:
  - Worldwide 30A Single-Phase or Phase-Phase, 4 Cord (low power configuration only)
  - North America: 30A 3-p 4-cord or 60A 3-p 2-cord
  - International: 32A 3-p 2-cord
  - All plugs are IEC 60309 CEE17 including solutions for N. America
- Max Power: 10.3kW
- Dual AC: Standard
- Compliant with U.S. and International Safety and Emissions Standards

SUPPORT SERVICES

Teradata Premier Support

- Integrated hardware and software maintenance and support
- Secure remote connectivity

- Fast response times
- 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

Implementation Services

- System Installation
- Software Implementation