

# Teradata Data Warehouse Appliance

Simple, Powerful, Cost-Effective

Data Warehousing

**The best price for performance appliance in the marketplace**



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

## Simple

Delivered ready to run, the Teradata Data Warehouse (DW) Appliance is a fully-integrated system that's purpose-built for data warehousing. The Teradata DW

Appliance features the industry-leading Teradata Database, a Teradata platform with quad core Intel® 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 new 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 DW Appliance uses the proven high-performance Teradata Database. Established in hundreds of customer sites around the world, it's the most robust database for data warehousing. This appliance's innovative design is optimized for deep-dive analytical analysis. Its software-based, shared nothing architecture delivers *always on* parallelism so even the toughest, most complex queries complete quickly.

## 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 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.

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### **Robust workload management**

- > 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.

### **Cost Effective**

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 Teradata system.
- > Leverage your existing resources and tools – with Teradata as your standard for all business intelligence platforms, your DBAs, system administrators, and application developers can support multiple systems without additional training.

- > Easily migrate applications into an Enterprise Data Warehouse from Teradata by leveraging the same data, data models, table structures, views, queries, and load programs. Grow into a Teradata Active Enterprise Data Warehouse as your needs evolve.

### **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 Entry-level Solution**

As the industry leader in 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™, Business Objects®, Cognos®, GoldenGate Software®, Harte-Hanks®, IBM®, Informatica®, Information Builders, KXEN™, MicroStrategy®, Microsoft®, Oracle®, Protegrity, SAP®, SAS®, TIBCO®, and others, are ready to run on Teradata Database. Since the Teradata DW Appliance includes the Teradata Database, you can easily leverage these vendors' tools and

applications without any complex integration work.

### **Why Teradata?**

Teradata, the global leader in data warehousing and analytic technologies, provides solutions that help make companies smarter and faster. Teradata gives companies the people, technology, innovation, industry expertise, and a world-class network of customers and partners enabling them to gain competitive advantage to master their markets.

Teradata brings a blend of technology and experience unavailable from any other source. We've been providing innovative, best-in-class business solutions and technologies for some of the world's most successful data warehouses for more than 25 years. Our sole focus is on data warehousing. Organizations around the world rely on the power of Teradata's award-winning solutions and consultants to get a single, integrated view of their business to enhance decision making, customer relationships, and profitability.

### **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](http://Teradata.com).

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Teradata.com

## Teradata Data Warehouse Appliance Description

The Teradata DW Appliance includes:

- Teradata Database 12.0
- SUSE Linux 10, SP3 for 64-bit Operating System
- Integrated Cabinet
  - Intel Quad Core Xeon processors @ 2.33GHz
  - Teradata BYNET™ Interconnect software
  - 6.3TB user data in a half cabinet or 12.6TB user data in a fully populated cabinet with 30% compression
  - 20.7TB spinning disk in a half cabinet or 41.4TB spinning disk in a fully populated cabinet
  - System Management infrastructure and Teradata Administration Workstation
- Scalable up to 11 fully populated Teradata 2550 cabinets and 140 Terabytes

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

- **Management** – Teradata Manager
- **Data Loading** – Teradata Parallel Transporter Load and Export 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

- **SQL Generation** – Teradata SQL Assistant, SQL Assistant/Web Edition, Basic Teradata Query Utility (BTEQ)

## Teradata Administration Workstation (AWS)

- Provides single operational view to administer the entire MPP system with local or remote system monitoring.
- Connected via redundant gigabit Ethernet LAN to system elements.
- Enables management of external disk subsystems.
- Microsoft® Windows® 2003-based console server.

## Specifications

### Cabinet Specifications

- Height: 77 in. (195.6 cm)
- Width: 24 in. (60.96 cm)
- Depth: 45 in. (114.3 cm)
  - 40 in. (101.6 cm) w/o the front and rear doors
- Weight: 1,715 lbs. (780 kg) fully loaded with crate
- Installed Weight: 1,465 lbs. (666 kg) fully loaded w/o crate

### Operating Specifications

- Operating Temperature: Allowable: 59° F to 77° F (15° C to 32° C);

Recommended: 68° F to 77° F (20° C to 25° 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: 24 amps – Four cords with 30 ampere North American – plugs – L6-30P and 32 amps with two cords three phase IEC plug
- Power: 8300 watts
- Dual AC: Standard
- Compliant with U.S. and International Safety and Emissions Standards

## Support Services

### Core 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

### Implementation Services

- System Installation
- Software Implementation

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