NCR WorldMark™ 5250 Server

Large-Scale MPP Teradata @ctive Warehouse™

The WorldMark 5250 and Teradata offer a completely integrated active warehousing solution with optimized system performance.

In today's fast-paced, ever-changing, competitive environment, your active data warehouse must support higher performance, availability to guarantee response, and scalability to accommodate business growth. Only the new WorldMark 5250 meets these needs to become the most dependable, highest performing, massively parallel processing (MPP) server ever to be released in a Teradata Warehouse.

Designed specifically for large-scale data warehousing, these servers offer a new baseline in speed and performance surpassing all previous standards for applications scaling from 400 Gigabytes to an in excess of 100 Terabytes. The WorldMark 5250 features industry-leading Intel technology with NCR value-added components, such as NCR's proven BYNET® interconnect technology that enables the world's fastest complex queries and offers true, linear performance scalability. This combination ensures the consistent dependability required for collection, storage and analysis of critical business data.

The WorldMark 5250 systems can adapt and change along with your business. Unparalleled in its scalability, the system accommodates for future growth of your business by expanding incrementally from two to 512 nodes. Backed by award winning professional services, support and the strength of NCR's demonstrated data warehousing expertise, the WorldMark 5250 system offers the solid foundation you need to protect your data and your investment, securing the growth needed for leadership in today's business environments.

Features	Benefits
Designed specifically for large-scale data warehousing	• Optimum utilization of Teradata architecture and proven BYNET® technology in a decision support environment • Massively Parallel Processing (MPP) BYNET® Interconnect enables true linear performance scalability • Centralized and simplified administration via the specialized Server Management subsystem and Administration WorkStation (AWS)
Best value for your investment	• WorldMark 5250 systems expand incrementally as business demand increases • Choice of operating systems: UNIX or Windows
Investment protection	• Expand on initial investment without replacing the system • Coexistence with WorldMark 5200 systems and next generation WorldMark MPP platforms

Hardware Solutions

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Specifications

NCR WorldMark 5250 System

Processors
- 4 – Intel® Pentium® III Xeon™ 700 MHz processors per node
- 1MB cache per processor
- System Bus 800MB per second total bandwidth

Memory
- Up to 4GB of Error Checking and Correcting Memory per node (EDO DIMM)
- Four-way memory interleaving std.

I/O
- 11 PCI slots per node; 1 PCI/ISA
- Five, 64-bit slots
- Six, 32-bit slots
- Quad Ultra SCSI channels at 40MB per second
- Quad Ultra II SCSI channels at 80MB per second (use with WorldMark Enterprise Storage only)

MPP Interconnect – BYNET V2
- Fault tolerant Interconnect via Dual Redundancy
- Linear scalability
- Self configuring, full diagnostic capability
- 120MB per second per node bandwidth on dual redundant networks

Internal Backup Devices
- 4 – 9GB hard drives standard 5th 9 or 18GB hard drive optional
- 8mm tape 7/14GB or 20/40 available

Connectivity
- Up to 7 LAN connections
- Supported connectivity via PCI: Ethernet 10/100/1000, ATM, FDDI, TTY, Token Ring
- Optional IBM Channel (Bus & Tag, ESCON) for NCR Teradata RDBMS

Administrative WorkStation (AWS)

- Single point of system administration and management for the entire MPP system with local or remote system monitoring
- Connected via Ethernet LAN to AWS console
- Multiple paths to processing nodes
- Enables management of external disk subsystems

External Data Storage
- NCR WorldMark Enterprise Storage
- NCR Storage Cabinet 6000 & Modular Arrays (LSI Logic Storage Systems, Inc.)
- NCR 6277/6290 Disk Array Subsystems (EMC – UNIX Only)
- NCR 6402/6404/6465/6466

Cabinet Specifications
- Height: 195.6 cm (77 inches)
- Width: 62.6 cm (24.5 inches)
- Depth: 101.6 cm (40 inches)
- Weight: 1255 Lbs
- Operating Temperature: 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
- Voltage Range: 208/220/230/240
- Frequency: 50-60Hz
- Current: 20 Amps
- Power: 2700 Watts
- Dual AC: Configurable
- Compliant with US and International Safety and Emissions Standards

Operating Environment

- NCR Teradata Database System for UNIX and Windows 2000®

- NCR UNIX SVR4 MP-RAS operating system
- Microsoft Windows 2000® Advanced Server Edition

High Availability

- Internal uninterruptible power (via hot pluggable battery backup)
- Dual A/C (enables power from two different grids for maximum uptime)
- Hot Pluggable Components – fault resilient fan modules, redundant power supplies, fault tolerant interconnect

Support Services

Global Support
- 20,000 service personnel, 1,200 service locations, 120 countries
- 24x365 availability

Warranty Support
- 1 year remote and on-site hardware support, operating system problem resolution
- Software patches and maintenance releases
- 24-hour incident reporting
- Basic system installation

Enterprise System Support
- ESS Enhanced Support
- ESS Business Critical Support

Implementation Services (all optional)
- Staging Services
- Power Protection & Cabling Services
- Supplemental Installation Services

Network & Management Services
- Full suite available

Scalability

	MP-RAS	NT	Win 2000
5250 MPP	2-512	–	2-64

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Transforming Transactions into Relationships

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