

LENOVO BLADECENTER HT SOLUTIONS

Industry-leading virtualization connectivity with enterprise-proven scalability



BLADECENTER VALUE

The Lenovo® BladeCenter® HT chassis helps reduce network infrastructure costs while increasing network infrastructure performance and flexibility—making it the ideal platform to support demanding next-generation, high-performance core telecom network applications.

This chassis maintains compatibility with the Lenovo BladeCenter family—the three chassis in the BladeCenter family share the same blades and switches, and support legacy and currently shipping blades. Customers who will benefit most from BladeCenter HT include telecommunications Network Equipment Providers and Service Providers (SPs).

SCALABLE PLATFORM

BladeCenter HT is a highly dense, carrier-grade platform on which Lenovo Business Partners, SPs and Network Equipment Providers can build their IP-based, next-generation networks. This high-performance, scalable, industry-standard computing platform is designed to help SPs accelerate

revenue generation, reduce costs and improve customer loyalty. BladeCenter HT extends the ability of the BladeCenter family to scale, consolidate existing/new workloads efficiently and save valuable floor space and costs through a reduced footprint. Leveraging BladeCenter HT will enable telecommunications companies to become more nimble, efficient and responsive to business changes and opportunities—addressing the challenges of delivering new, revenue-generating services quickly and cost-effectively.

INCREASE FLEXIBILITY

The BladeCenter family provides system compatibility—achieved through common components for blades, switches, I/O, storage, management and options. This is continued with BladeCenter HT and the additional operational flexibility provided for deploying systems based upon specific requirements—data center or central office, DC or AC power, NEBS-3/ETSI and high availability. When combined with support for the Linux, Windows, AIX and Sun Solaris operating systems, the BladeCenter family helps give SPs the flexibility needed for

application development and deployment. Focus on applications can be leveraged from one environment to another, expanding market reach and reducing time to market.

HIGHLY RELIABLE

BladeCenter HT delivers rich telecom features and functionality, including integrated servers (i.e., processing), storage and networking, fault-tolerant features, optional hot-swappable redundant DC or AC power supplies and cooling, and built-in system management resources. BladeCenter HT has been designed to meet the rigorous Network Equipment Building System (NEBS) standards for electromagnetic compatibility, thermal robustness, fire resistance, earthquake and office vibration resistance, transportation and handling durability, acoustics and illumination and airborne contaminant resistance. The result is a chassis with easy deployment into telecommunications racks and infrastructures, helping reduce implementation complexity and time to market.

HIGH DENSITY

The dense architectural design of BladeCenter HT doubles the density available from Lenovo System x® carrier-grade, rack-mount servers by supporting the deployment of up to 12 blade servers per chassis. BladeCenter HT supports blade servers including Intel® processor-based blade servers (HS23E, HS23), making it a cost-effective, efficient solution for adding scale and capacity for next-generation network environments and applications.

INFRASTRUCTURE MANAGEMENT

BladeCenter, with integrated management tools, provides a single point of control for managing an entire telecommunications environment, helping to maximize system reliability and availability. Coupled with Lenovo management software, SPs can help simplify administration and reduce costs associated with supporting multiple disparate servers and operating systems, including maintenance, licensing, floor space and other overhead.

VIRTUALIZATION

BladeCenter HT takes virtualization to the next level by enabling server, storage and I/O sharing across multiple chassis of blades—making it ideal for even the most demanding telecommunications environments. Virtualization provides the ability to share and manage workloads across multiple resources, making your next-generation network infrastructure more responsive and efficient, enabling an improved user experience.

INTEROPERABILITY

The BladeCenter family addresses the connectivity, interoperability and internetworking requirements facing today's service providers.

- Cost effectively integrate telecommunications transport plane applications, which often comprise a significant proportion of total network costs, such as Mobility/Wireless, Media and Signaling gateways, as well as Network Processors (NP), into BladeCenter.

- Route packets from a wireless LAN to another network (typically wired), enable multimedia communications across NGN networks over multiple transport protocols such as IP and ATM and deploy SS7 functionality for efficient call setup/tear down in BladeCenter. In addition, packet processing within IP networks can be enhanced and optimized.
- Enhance I/O interoperability between BladeCenter and legacy architectures, and AdvancedTCA, with industry-standard Advanced Mezzanine Cards (AMC), Network Processor and DSPs for such applications as WAN I/O transport, media gateway and signal internetworking.

- Dramatically increase scalability for emerging next-generation network applications, such as VoD, requiring many streaming ports to servers by providing up to eight Gigabit Ethernet ports.

WHY LENOVO

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

SPECIFICATIONS

	BladeCenter HT	BladeCenter H
RACK FORM FACTOR	12U	9U
BLADE BAYS	12	14
STANDARD MEDIA	USB, optional Compact Flash, (no DVD/CD)	DVD-ROM
NUMBER OF SWITCH FABRICS	Up to four legacy, up to four high speed and up to two bridge modules	Up to four legacy, up to four high speed and up to four bridge modules
POWER SUPPLY MODULE	AC or DC	AC
THERMAL DESIGN	Four hot-swap fan modules	Two hot-swap fan modules plus up to 12 hot-swap fans
SYSTEMS MANAGEMENT CONTROLLER	Up to two Advanced Management Modules	Up to two Advanced Management Modules
NEBS-3/ETSI CHASSIS	Yes	No
4X INFINIBAND, 10GB ETHERNET CAPABILITY (INTERNAL)	Yes	Yes
EXTERNAL I/O PORTS	USB-based keyboard, mouse (KM), Ethernet, DB15, Analog Video	Keyboard, video, mouse, Ethernet, USB
SYSTEMS MANAGEMENT SOFTWARE	Systems management and trial deployment tools	
PREDICTIVE FAILURE ANALYSIS	Hard disk drives, processors, blowers, memory	
LIGHT PATH DIAGNOSTICS	Blade server, processor, memory, power supplies, blowers, switch module, management module, hard disk drives and expansion card	
LIMITED WARRANTY	3-year onsite limited warranty	

FOR MORE INFORMATION

To learn more about the Lenovo BladeCenter family, contact your Lenovo representative or Business Partner, or visit lenovo.com/servers

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