



Unisys ClearPath Libra 460 Server

Product Information Sheet



The ClearPath Libra 460 Server is an open mainframe system that delivers all of the traditional mainframe attributes, plus valuable new business characteristics such as diverse computing workloads, flexible buying models, popular software standards, powerful integration middleware, and excellent productivity economics.

The ClearPath Libra 460 Server is the fully featured, entry level Quad-core Intel® Xeon® processor-based mainframe system for MCP environments. This server running MCP and Windows operating systems delivers all of the traditional mainframe attributes, a wealth of valuable business characteristics, and a flexible modular design. Object-code compatible with all members of the MCP family of products, the Libra 460 Server provides both the high speed and high reliability of a Unisys online transaction processing environment and the ease of use and personnel productivity offered by the Microsoft® Windows® 2008 Enterprise Edition R2 x64 operating environment.

Libra Model 460 Servers support a high level of infrastructure flexibility for the agile enterprise, including a choice of hardware technologies, operating environments and applications, growth options, integration software, and even buying models.

Product Highlights

The ClearPath Libra Model 460 Server offers the following improved mainframe hardware and software attributes:

- New-generation Intel® quad-core processors
- Capacity-on-Demand (i.e. Temporary Performance Key, Disaster Recovery Key)
- Flexible software licensing options
- High-volume, mission-critical transaction processing
- High performance interoperability
- Powerful middleware for application, Internet, message, and data integration in heterogeneous environments using popular industry standards
- Application access via Web, PDA, mobile, etc.
- Powerful SOA capabilities to allow existing ClearPath MCP applications to participate in SOA or to build new SOA services
- Extensive MCP software portfolio with true mainframe attributes
- A suite of mainframe application development tools
- Low-cost development environments
- Tape encryption for external tape subsystems
- Remote management card
- Specialty Engine enhancements that enable a new horizon of creative ClearPath solutions. These highly automated solutions extend ClearPath applications into new e-business technologies including web services, smart phones and other mobile devices

New levels of Flexibility

By combining a business critical environment with open system capabilities, ClearPath Libra 460 Servers give you an operating environment that is flexible, powerful, and compatible with your existing MCP-based solutions. ClearPath MCP applications and data can be integrated with external homogeneous servers, databases, and applications using virtually any of the industry's most popular technologies.

- High availability depends to a great extent on server design. The Libra 460 Server features two hot-plug and redundant power supplies, redundant hot-plug fans, Serial-attached SCSI (SAS) and Solid State Disk (SSD) hot-plug hard drives. SAS RAID disk drives notify you if a hard drive is going to fail, so you can proactively replace it.

Availability

- High efficiency hot-plug drives and power supplies
- Redundant Power Supplies (1+1)
- Support for multiple RAID solutions
- One embedded dual-ported 1GbE NIC
- Integrated IPMI 2.0 compliant hardware monitoring circuitry in base management controller

Secure Environment

ClearPath MCP software has in-built security to help protect your business from the risks and costs associated with unauthorized access to resources.

Four Flexible MCP Licensing Options

- User-based licensing (licensed in 8-packs) for the 40 and 50 MIP performance models
- Traditional MCP licensing based upon performance models
- Software Developers Kit (SDK) workload licensing with all compilers and application software development tools included
- Agile Business Suite workload licensing

Technical Specification for the Libra 460 Server:

MCP Partitions	One
MCP Central Processing Modules (CPMs)	Up to 6 MCP CPMs
MCP Performance*	Minimum 40 MIPs / 972 RPMs with 1 MCP CPM Maximum 300 MIPs / 7,290 RPMs with 2 MCP CPMs Single-threaded Performance at 225 MIPs / 5,468 RPMs
Operating environment	MCP 14.0 Virtual Machine for ClearPath MCP (MCPvm) 11.0 Windows 2008 R2 SP1 Enterprise Edition (x64 bit)
Installed Intel® processors	Two 3.3GHz Quad-Core Intel® Xeon® processors with 2.5MB cache per core (Intel® E5-2643 product family)
Memory	64GB addressable memory
Memory architecture	1600MHz RDIMMs, with advanced ECC operations
Network interfaces	Intel Dual Port 1GbE (LOM)
IO Slots	7 PCIe Gen3 slots: <ul style="list-style-type: none"> • Four x16 slots with x16 bandwidth, full-length, full-height • Two x8 slots with x8 bandwidth, full-length, full-height • One x8 slots with x4 bandwidth, full-length, full-height
Host Bus Adapters and Ethernet NIC Cards	Fibre Channel (single and dual ports); 1 GbE Ethernet NIC's (dual and quad ports), 10GbE Ethernet NIC (dual port fibre); SAS RAID Controller
Internal Hard Drive Bays	Hot-plug drive options: <ul style="list-style-type: none"> • 16 bays for 2.5" SAS drives or SAS SSD drives • 16 + 16 bays for 2.5" SAS drive or SAS SSD drives (split bus backplane) • 32 bays for 2.5" SAS or SAS SSD drives
Hard Drive Density	SAS drive: 146GB, 300GB, and 600GB SSD drive: 200GB and 400GB
Power Supply and Specifications	Dual hot-plug auto-ranging Power Supply: Platinum + Efficiency 1100W <ul style="list-style-type: none"> • Current consumption 12A – 6.5A • Supply voltage: 100 – 240 VAC • Frequency: 50/60MHz • Heat dissipation (BTU/hr max): 4100
Remote Management	iDRAC7 Express or iDRAC7 Enterprise (optional) (Dedicated Remote Access Controller)
Systems Management	iPMI 2.0 Compliant and OpenManage
Front Ports	<ul style="list-style-type: none"> • 1 VGA port (rack mount chassis only) • 2 USB 2.0 ports • 1 vFlash media slot
Rear Ports	<ul style="list-style-type: none"> • 1 VGA port • 6 USB 2.0 ports • 2 RJ-45 Ethernet LOM ports • 1 RJ-45 iDRAC port • 1 Serial Connector
Optical Drive	SATA DVD +/- RW drive
Internal Tape	One optional half height tape backup device (LTO5) (Configured only with the 16 Hard Drive Bay Chassis)
Cooling method	Hot replaceable fans (1+1)
Availability Features and Options	ECC memory, hot-plug hard drives, high efficiency, hot-plug redundant power supplies; hot-plug redundant cooling, tool-less chassis
Physical Specifications	Tower Configurations (5U): <ul style="list-style-type: none"> • 70.9cm (27.9") D x 30.5cm (12.0") W x 47.2cm (18.6") H • Maximum Weight: 41.8kg (92.2 lb.) Rack Configurations (5U): <ul style="list-style-type: none"> • 70.9cm (27.9") D x 48.2cm (18.98") W x 21.8cm (8.6") H • Maximum Weight: 43.1kg (94.8 lb.)
Unisys External Cabinet (40U) Physical Specifications	External Cabinet (40U) <ul style="list-style-type: none"> • 117.22cm (46.15") D x 60.68cm (23.89") W x 193.04cm (76") H • Frame Weight: 55.5kg (120 lb.)

*Performance statistics are based on performance testing conducted by Unisys using standard benchmark parameters. Additional information available upon request.

For more information visit www.unisys.com

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