

## Model M2026S 2U Server

### High-Performance Centralized Computing Solution with Dual Quad-Core Intel® Processors in a 2U Form Factor

Featuring two quad-core Intel® Xeon® processors, 18 DDR3-1333 memory sockets, and eight 3.5-inch hot-plug SAS or SATA (3 Gb/s) hard disk drives, ClearCube® M2026S Server offers the highest performance and best manageability of any 2U server available today.



The M2026S provides two dual-port Gigabit Ethernet controllers to ensure rapid, reliable access to network-stored data. Hardware RAID capability makes disaster recovery foolproof, with the option to write data across eight hard disks supporting RAID levels 0, 1, 5, 6, 10, 50, and 60. The M2026S chassis provides redundant, high-efficiency power supplies in a 1+1 configuration, integrated with high-volume chassis fans.



### Desktop and Server Virtualization

A virtualized M2026S gives IT administrators the ability to easily deploy and manage virtual servers and virtual desktops. Whether the system is leveraged with VMware ESX™, VMware Server™, Xen® hypervisor, Microsoft® Hyper-V™, or other virtualization solutions, ClearCube M2026S enables multiple users to simultaneously access a single server for a complete desktop experience. The M2026S is designed for high virtual machine density with up to 12 CPU cores and 192 GB RAM. An optional PCIe® 10 Gigabit fiber Ethernet controller with dual XFP optical connectors provides additional throughput for virtualization and other applications with high bandwidth requirements. Additional PCIe expansion slots for add-on cards provide flexibility in datacenter deployments.

### Powerful, Secure System Management

The M2026S contains an embedded baseboard management controller (BMC) supporting Intelligent Platform Management Interface (IPMI) v2.0. BMC and IPMI enable secure, remote M2026S access through system management utilities such as ClearCube IPMIView—even when the OS is hung or if the server is powered off. Administrators can view and be automatically notified about hardware health states, including temperature, fan speed, voltage, power status, and chassis intrusion. IPMI enables administrators to manage system power remotely (power on, power off, and reboot systems), securely access BIOS configuration utilities, and view desktops through Serial over LAN and embedded KVM over LAN.

The M2026S provides powerful, robust server performance while increasing security and manageability of assets and data. ClearCube Sentral™ management software provides advanced connection brokering and management features, giving IT administrators total control of the entire centralized infrastructure—from servers to virtual desktops—locally and remotely. Administrators can use Sentral to manage their entire centralized hardware and virtualized infrastructure from a single console. Unique VM checkout capabilities enable a mobile workforce to download VMs to laptops and then upload and synchronize changes.



# DATA SHEET

## Specifications

<b>General</b>	Intel 5520 chipset with up to 5.86 GT/s, depending on processor Two quad-core Intel Xeon processors Up to eight SATA II or SAS hard disk drives Supports RAID 0, 1, 5, 6, 10, 50, 60 with optional UIO RAID controller card (reduced support without card) Two dual-port Gigabit Ethernet controllers (four ports total) One dedicated IPMI LAN port (supports IPMI 2.0) Slim DVD-ROM drive (8x DVD, 24x CD) BIOS supports PXE and flash updates USB 2.0: two ports on front, two ports on rear, and four internal USB headers (8 total) PCIe <sup>®</sup> 2.0 slots: one x8 and four x4 slots (full height, full length) One Universal I/O (UIO) slot One VGA port Serial connections: one port on rear and one internal header
<b>Memory</b>	Eighteen 240-pin DIMM sockets (supports up to fifteen 16-GB DIMMs) Maximum 192 GB, DDR3 1333/1066/800 MHz, registered ECC memory Maximum 48 GB, DDR3 1333/1066/800 MHz, unbuffered ECC or non-ECC memory
<b>Video</b>	Integrated Matrox <sup>®</sup> G200eW graphics NVIDIA <sup>®</sup> GeForce <sup>®</sup> 8400 GS, 256 MB RAM, 2560 x 1600 maximum resolution
<b>Operating Systems</b>	Supports 32-bit and 64-bit versions of Microsoft Windows XP Professional, Windows Vista <sup>®</sup> Ultimate, Windows Server 2003, Windows Server 2008, and multiple Linux <sup>®</sup> distributions Compatible with VMware ESX 4.1, ESX 4.0 U2, ESX 4.0 U1, ESX 4.0
<b>Power Supply</b>	High efficiency, redundant 920 W power supplies (80 PLUS <sup>®</sup> PLATINUM Certification)
<b>Dimensions</b>	3.5" H x 27.75" D x 17.2" W (89 mm x 705 mm x 437 mm), fits standard 19-inch rack
<b>Weight</b>	55 pounds (24.9 kilograms)
<b>Environmental</b>	Operating temperature: 10° to 35° C, non-operating temperature: -40° to 70° C Operating relative humidity: 8% to 90% (non-condensing) Non-operating relative humidity: 5% to 95% (non-condensing)
<b>Certifications</b>	VMware ESX certified 80 PLUS PLATINUM

## Ordering Information

Use the following part number to order your M2026S 2U Server.

<b>G0900099</b>	Base Model M2026S 2U Server with North American Power Cords	
<b>Video</b>	G0100064	NVIDIA 8400 GS
	G0800103	NVIDIA Quadro FX4800 Gen 2 w/1.5 GB
	G0800062	V5220 Digital Dual Video Host Card with PCoIP Technology
	G0800064	V5240 Digital Quad Video Host Card with PCoIP Technology
<b>Processor</b>	(Required. Server accepts one or two CPUs; if two CPUs are ordered they must be identical.)	
	E932026-240	2.40 GHz Xeon E5620 Quad Core 12M
	E932026-200	2.0 GHz Xeon E5504 4M CACHE
<b>Hard Disk Drives (Required)</b>		
	G912026-147	147 GB 15K RPM SAS HDD
	G912026-300	300 GB 15K RPM SAS HDD
	G912026-500	500 GB, 7200 RPM SATA HDD
<b>Memory Modules (Required. Minimum of two equal-capacity modules)</b>		
	G9232026-4000	4 GB DDR3-1333 ECC Reg
	G9232026-8000	8 GB DDR3-1333 ECC Reg
<b>NIC</b>	G0100066	Dual Port 10Gb Network Controller Card
<b>RAID</b>	G0100065	2108 SAS-2 RAID 6 Gb/s 8port (required for HDD hot-swap, full RAID support, 8 HDDs; server supports 6 HDD without card)
<b>Riser Card</b>	G0100067	UIO 2U Riser Card
<b>Power Cords</b>	G0600038	Power Cord - EURO
	G0600040	Power Cord - UK
<b>Fiber Optic NIC</b>		
	G0800057	10GigE PCIe Adapter XFP (10-Gbps SFP) fiber interface
<b>Fibre Channel HBA</b>		
	G0800034	Fibre Channel Qlogic <sup>®</sup> QLE2462 dual port 4-GB FC HBA, PCIe Exp x4
<b>Operating System (No OS installed by default. OS installation is available. Linux ready and virtualization ready.)</b>		
	G0900077	Windows Server 2008 R2 64-bit, Standard License with DVD-ROM

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