

Hewlett-Packard

**HP ProLiant ML370 G5 - Tower - 2-way - 1 x Quad-Core Xeon E5335 / 2 GHz - RAM 1 GB - SAS - hot-swap 2.5" - no HDD - CD-RW / DVD-ROM combo - ATI ES1000 - Gigabit Ethernet - Monitor : none - 5U**



HP ProLiant ML370 G5 Tower Special Server

Product Description	HP ProLiant ML370 G5 - Quad-Core Xeon E5335 2 GHz
Type	Server
Form Factor	Tower - 5U
Dimensions (WxDxH)	21.9 cm x 72.4 cm x 46.7 cm
Weight	30.8 kg
Server Scalability	2-way
Processor	1 x Intel Quad-Core Xeon E5335 / 2 GHz ( Quad-Core )
Cache Memory	8 MB L2 Cache
Cache Per Processor	8 MB ( 2 x 4MB (4MB per core pair) )
RAM	1 GB (installed) / 64 GB (max) - DDR II SDRAM - 667 MHz - PC2-5300
Storage Controller	RAID ( Serial ATA-150 / SAS ) - PCI Express x8 ( Smart Array P400 ) ; IDE ( IDE/ATA )
Server Storage Bays	Hot-swap 2.5"
Hard Drive	None.
Optical Storage	CD-RW / DVD-ROM combo
Monitor	None.
Graphics Controller	ATI ES1000 - 32 MB
Networking	Network adapter - PCI Express x4 - Ethernet, Fast Ethernet, Gigabit Ethernet - Ethernet Ports : 2 x Gigabit Ethernet
Power	AC 120/230 V ( 50/60 Hz )
Power Redundancy	Optional
Manufacturer Warranty	3 years warranty ( on-site )

## Extended Specs

### General

Type	Server
Recommended Use	Small business, corporate business
Product Form Factor	Tower - 5U
Server Scalability	2-way
Front Accessible Bays Qty	3
Hot-Swap Bays Qty	8
Width	21.9 cm
Depth	72.4 cm
Height	46.7 cm
Weight	30.8 kg

## Processor

Type	Intel Quad-Core Xeon E5335 / 2 GHz
Multi-Core Technology	Quad-Core
64-bit Computing	Yes
Installed Qty	1
Max Supported Qty	2
Upgradability	Upgradable

## Cache Memory

Type	L2 Cache
Installed Size	8 MB
Cache Per Processor	8 MB ( 2 x 4MB (4MB per core pair) )

## Mainboard

Chipset Type	Intel 5000P
Data Bus Speed	1333 MHz

## RAM

Installed Size	1 GB / 64 GB (max)
Technology	DDR II SDRAM
Memory Speed	667 MHz
Memory Specification Compliance	PC2-5300
Form Factor	FB-DIMM
Features	Fully Buffered
Configuration Features	2 x 512 MB

## Storage Controller

Type	1 x RAID - plug-in card - PCI Express x8
Controller Interface Type	Serial ATA-150 / SAS
Storage Controller Name	Smart Array P400
RAID Level	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Buffer Size	256 MB

## Storage Controller (2nd)

Type	1 x IDE - integrated
Controller Interface Type	IDE/ATA

## Storage

Hard Drive	None.
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## Optical Storage

Type	CD-RW / DVD-ROM combo - IDE
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## Monitor

Monitor Type	None.
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## Graphics Controller

Type	Integrated
Graphics Processor / Vendor	ATI ES1000
Video Memory	SDRAM
Installed Size	32 MB

## Networking

Networking	Network adapter - PCI Express x4 - integrated
Ethernet Ports	2 x Gigabit Ethernet
Ethernet Controller(s)	2 x HP NC373i
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Remote Management Controller	Integrated Lights-Out 2 Standard
Features	Wake on LAN (WoL)
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

## Expansion / Connectivity

Expansion Bays Total (Free)	3 ( 2 ) x front accessible - 5.25" x 1/2H 8 ( 8 ) x hot-swap - 2.5" SFF 1 ( 1 ) x drive cage
Expansion Slots Total (Free)	7 ( 6 ) x PCI Express x4 2 ( 2 ) x PCI-X / 133 MHz 8 ( 6 ) x memory - FB-DIMM 2 ( 1 ) x processor 2 ( 1 ) x memory board
Interfaces	1 x keyboard - generic - 6 pin mini-DIN (PS/2 style) 1 x mouse - generic - 6 pin mini-DIN (PS/2 style) 1 x serial - RS-232 - 9 pin D-Sub (DB-9) 1 x display / video - VGA - 15 pin HD D-Sub (HD-15) 6 x USB - 4 PIN USB Type A ( 2 front, 2 rear, 2 internal ) 2 x network - Ethernet 10Base-T/100Base-TX/1000Base-T - RJ-45 1 x management - HP iLO - RJ-45

## Miscellaneous

Features	Administrator password, power-on password, keyboard password, disk configuration lock, diskette I/O control, parallel port I/O control, serial port I/O control, quick lock, automatic server restart (ASR)
Compliant Standards	ACPI 1.0b

## Power

Device Type	Power supply - hot-plug
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Installed Qty	1
Max Supported Qty	2
Voltage Required	AC 120/230 V ( 50/60 Hz )
Power Provided	1000 Watt

## Operating System / Software

OS Certified	SCO OpenServer, Novell NetWare, Microsoft Windows 2000 Server, Red Hat Linux, SuSe Linux, Microsoft Windows Server 2003, UnitedLinux
Software	Drivers & Utilities

## Manufacturer Warranty

Service & Support	3 years warranty
Service & Support Details	Limited warranty - parts and labour - 3 years - on-site - response time: next business day

## Environmental Parameters

Min Operating Temperature	5 C
Max Operating Temperature	35 C
Humidity Range Operating	5 - 95%

## Processor Upgrades

458422-B21	Processor upgrade - 1 x Intel Dual-Core Xeon X5260 / 3.33 GHz ( 1333 MHz ) - L2 6 MB
437391-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5335 / 2 GHz ( 1333 MHz ) - LGA771 Socket - L2 8 MB ( 2 x 4MB (4MB per core pair) )
433102-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5345 / 2.33 GHz ( 1333 MHz ) - LGA771 Socket - L2 8 MB ( 2 x 4MB (4MB per core pair) )
458420-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5405 / 2 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
458418-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5410 / 2.33 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
458416-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5420 / 2.5 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
458414-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5430 / 2.66 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
458412-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5440 / 2.83 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
458410-B21	Processor upgrade - 1 x Intel Quad-Core Xeon E5450 / 3 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
433104-B21	Processor upgrade - 1 x Intel Quad-Core Xeon X5355 / 2.66 GHz ( 1333 MHz ) - LGA771 Socket - L2 8 MB ( 2 x 4MB (4MB per core pair) )
450321-B21	Processor upgrade - 1 x Intel Quad-Core Xeon X5365 / 3 GHz ( 1333 MHz ) - L2 8 MB ( 2 x 4MB (4MB per core pair) )
462711-B21	Processor upgrade - 1 x Intel Quad-Core Xeon X5450 / 3 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )
458408-B21	Processor upgrade - 1 x Intel Quad-Core Xeon X5460 / 3.16 GHz ( 1333 MHz ) - L2 12 MB ( 2 x 6MB (6MB per core pair) )

## UPS & Power Devices

399771-021	HP - Power supply - hot-plug / redundant ( plug-in module ) - Europe
399771-031	HP - Power supply - hot-plug / redundant ( plug-in module ) - United Kingdom

## System Accessories

400899-B21	HP - Rack tower to rack conversion kit
400693-B21	HP - Redundant hot plug fan kit

## System Service & Support

U4529E	Electronic HP Care Pack 4-hour 24x7 Same Day Hardware Support - Extended service agreement - parts and labour - 3 years - on-site - 24 hours a day / 7 days a week - 4 h
U8117E	Electronic HP Care Pack 4-hour 24x7 Same Day Hardware Support - Extended service agreement - parts and labour - 4 years - on-site - 24 hours a day / 7 days a week - 4 h
U8083E	Electronic HP Care Pack 4-hour 24x7 Same Day Hardware Support - Extended service agreement - parts and labour - 5 years - on-site - 24 hours a day / 7 days a week - 4 h
U4528E	Electronic HP Care Pack 4-hour Same Business Day Hardware Support - Extended service agreement - parts and labour - 3 years - on-site - 13x5 - 4 h
U8100E	Electronic HP Care Pack 4-hour Same Business Day Hardware Support - Extended service agreement - parts and labour - 4 years - on-site - 13x5 - 4 h
U8066E	Electronic HP Care Pack 4-hour Same Business Day Hardware Support - Extended service agreement - parts and labour - 5 years - on-site - 13x5 - 4 h

U5722E	Electronic HP Care Pack 6-Hour Call-To-Repair Hardware Support - Extended service agreement - parts and labour - 3 years - on-site - 13x5 - 6 h
U4530E	Electronic HP Care Pack 6-Hour Call-To-Repair Hardware Support - Extended service agreement - parts and labour - 3 years - on-site - 24 hours a day / 7 days a week - 6 h
U9752E	Electronic HP Care Pack 6-Hour Call-To-Repair Hardware Support - Extended service agreement - parts and labour - 4 years - on-site - 24 hours a day / 7 days a week - 6 h
U9751E	Electronic HP Care Pack 6-Hour Call-To-Repair Hardware Support - Extended service agreement - parts and labour - 5 years - on-site - 24 hours a day / 7 days a week - 6 h
UA024E	Electronic HP Care Pack Next Business Day Hardware Support - Extended service agreement - parts and labour - 4 years - on-site - NBD
UA023E	Electronic HP Care Pack Next Business Day Hardware Support - Extended service agreement - parts and labour - 5 years - on-site - NBD

## RAM

461826-B21	HP - Memory - 2 GB ( 2 x 1 GB ) - FB-DIMM low profile - DDR II - 667 MHz / PC2-5300 - Fully Buffered
461828-B21	HP - Memory - 4 GB ( 2 x 2 GB ) low profile - DDR II - 667 MHz / PC2-5300 - Fully Buffered
466440-B21	HP - Memory - 8 GB ( 2 x 4 GB ) - FB-DIMM low profile - DDR II - 667 MHz / PC2-5300 - Fully Buffered

## Memory Adapters

403766-B21	HP - Memory board - DRAM : DIMM 240-pin - 0 MB / 32 GB (max)
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## Hard Drives

431786-B21	HP - Hard drive - 120 GB - internal - 2.5" - SATA-150 - 5400 rpm
379306-B21	HP - Hard drive - 60 GB - hot-swap - 2.5" - SATA-150 - 5400 rpm
418367-B21	HP Dual Port - Hard drive - 146 GB - hot-swap - 2.5" SFF - SAS - 10000 rpm
418369-B21	HP Dual Port - Hard drive - 36 GB - hot-swap - 2.5" SFF - SAS - 15000 rpm
384842-B21	HP Dual Port - Hard drive - 72 GB - hot-swap - 2.5" SFF - SAS - 10000 rpm
418371-B21	HP Dual Port - Hard drive - 72 GB - hot-swap - 2.5" SFF - SAS - 15000 rpm
375861-B21	HP Single Port - Hard drive - 72 GB - hot-swap - 2.5" - SAS - 10000 rpm

## Storage Adapters

401415-B21	HP SAS Drive Cage - Storage drive cage
412911-B21	HP SC11Xe Host Bus Adapter - Storage controller - 1 Channel - Ultra320 SCSI - 320 MBps - PCI Express x4
374654-B21	HP Single Channel Ultra320 SCSI Host Bus Adapter G2 - Storage controller - 1 Channel - Ultra320 SCSI - 320 MBps - PCI-X
381513-B21	HP Smart Array P800 Controller - Storage controller (RAID) - SATA-150 / SAS - 300 MBps - RAID 0, 1, 5, 6, ADG, 0+1 - PCI Express x8
AA986A	HP StorageWorks Modular Smart Array 1500 cs - Storage controller - 2 Channel - Ultra320 SCSI - 320 MBps - Fibre Channel
AD537A	HP StorageWorks Modular Smart Array 1510i 2U iSCSI Controller Shelf - Storage controller (RAID) - Ultra160 SCSI - RAID 0, 1, 10, ADG

## Storage Cables

457692-B21	HP - Serial ATA / SAS cable
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## Storage Accessories

AE459A	HP StorageWorks 1U SAS Rack-Mount Kit - Rack mounting kit - 1U
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## Hubs & Switches

AF611A	HP Server Console Switch 1x4 - KVM switch - 4 ports - 1 local user - 1U
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## Network Adapters

445513-B21	HP Lights-Out 100c Remote Management Card - Remote management adapter
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434905-B21	HP NC110T PCI Express Gigabit Server Adapter - Network adapter - PCI Express x1 - Gigabit EN - 1000Base-T
412648-B21	HP NC360T PCI Express Dual Port Gigabit Server Adapter - Network adapter - PCI Express x4 - EN, Fast EN, Gigabit EN - 10Base-T, 100Base-TX, 1000Base-T - 2 ports
435508-B21	HP NC364T PCI Express Quad Port Gigabit Server Adapter - Network adapter - PCI Express x4 - EN, Fast EN, Gigabit EN - 10Base-T, 100Base-TX, 1000Base-T - 4 ports
394791-B21	HP NC373T PCI Express Multifunction Gigabit Server Adapter - Network adapter - PCI Express x4 - EN, Fast EN, Gigabit EN - 10Base-T, 100Base-TX, 1000Base-T
AB429A	HP StorageWorks FC1143 - Network adapter - PCI-X - 4Gb Fibre Channel
AE369A	HP StorageWorks FC1243 - Network adapter - PCI-X - 4Gb Fibre Channel - 2 ports

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