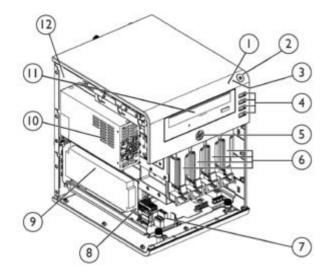
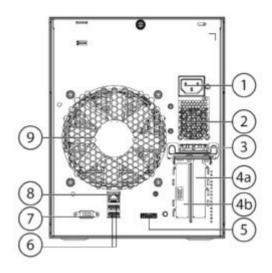
Overview





Front View:

- 1. NIC LED
- 2. Power Button
- 3. HDD LED
- 4. USB Ports
- 5. Health LED
- 6. Hard Drive Bays
- 7. System Board
- 8. Remote Access Card slot
- 9. PCIe slot
- 10. Power Supply
- 11. Optical Drive Bay
- 12. Front view drawing is for reference only. The side panel is not removable.

Rear View:

- 1. Power Supply Outlet
- 2. PSU Fan
- 3. PCI Holder
- 4a. PCI Bracket 1
- 4b. PCI Bracket 2
- 5. e-SATA Connector
- 6. USB 2.0 Ports
- 7. VGA Port
- 8. Embedded NIC Port
- 9. Rear System Fan

What's New

• AMD Turion™ II Neo N54L (2.2GHz)



Overview

At A Glance

- Processor:
 - O AMD Turion™ II Neo N54L (2.2GHz)
 - O AMD RS785E/SB820M chipset
- Memory:
 - O Two (2) DIMM slots
 - 2GB (1x2GB) Standard or 4GB (1x4GB)/8GB Maximum, using PC3-10600E DDR3 Unbuffered (UDIMM) ECC memory, operating at max. 800MHz
- Storage Controller:
 - O Embedded AMD SATA controller with RAID 0, 1
 - Embedded AMD eSATA controller for connecting external storage devices via the eSATA connector in the rear
 of the server

• Internal Drive Support:

- O 4 Internal HDD Support
- O Maximum internal SATA storage capacity of up to 8.0TB (4 x 2TB 3.5" SATA drives)
- Network Controller:
 - Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
- Expansion Slots:
 - O Slot 1: PCI-Express Gen 2 x16 connector with x16 link
 - O Slot 2: PCI-Express Gen 2 x1 connector with x1 Link
 - O Slot 2-2: PCI-Express x4 slot for optional management card
- USB 2.0 Ports:
 - O Seven (7) USB 2.0 ports: 4 front, 2 rear, 1 internal (for tape)
- Power Supply:
 - 150 Watts Non-Hot Plug, Non Redundant Power Supply
- Management:
 - O Optional MicroServer Remote Access Card
- Operating System:
 - Supports Windows and Red Hat Linux
- Form Factor:
 - O Ultra Micro tower
- Warranty:
 - O This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for one year from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.
 NOTE: Server Warranty includes 1 year Next Day Parts replacement, 0-Years Labor, 0-Years Onsite support. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.



Standard Features

Processor	Dual-Core Processor AMD Turion II Processor Model Neo N54L (2.20 GHz, 15W, 2MB)					
Cache Memory	2x 1MB Level 2	2x 1MB Level 2 cache				
Chipset	AMD RS785E/SI	AMD RS785E/SB820M				
Memory Protection	ECC					
Memory	Type PC3-10600E unbuffered DDR3 ECC operating at 800MHz Standard 1 GB (1x1GB) 2GB (1x2GB)					
	Maximum	4GB (1 8 GB	x4GB)			
Network Controller	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter					
Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number	Form Factor	Notes
1	PCI-e	x16	x16	1h	Half height, half length slot	
2	PCI-e	x 1	x 1	2h	Half height, half length slot	
	* Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the act assignment number. ** Indicates the number of physical electrical lanes running to a PCI-e connector.				ne actual bus	
Storage Controller	Integrated SATA controller with embedded RAID (0, 1) NOTE: Embedded RAID setup instructions are located in the MicroServer User Guide.			de.		
Internal Storage Devices	Optical Drive Optional: Half-Height SATA DVD-RW drive Hard Drives 1x250GB NHP SATA 7200 rpm Drive					
Maximum Internal Storage	Non-Hot Plug SATA 8TB (4 x 2TB) 3.5" SATA					
Interfaces	Graphics On board VGA					
	USB 2.0 Ports Network RJ-45 (Ethernet)		(2 rear, 4 front p 00/1000 bits/s)	oanel, 1 internal)	1	
	eSATA Gen 2					



Standard Features	
Graphics	128MB shared supporting 1920x1200 @ 60Hz
Form Factor	Ultra Micro Tower
Industry Standard	ACPI V2.0 Compliant
Compliance	PCI 2.3 Compliant
	PXE Support
	WOL Support
	IPMI 2.0 compliant
	USB 2.0
	SATA Gen 2
Security	Setup password
Server Power Cords	7 country specific, lowline NEMA power cord.
Power Supply	150 Watts Non-Hot Plug, Non redundant Power Supply
System Fans	One (1) - Non-redundant system fan shipped standard
Operating Systems	Microsoft Windows Server Red Hat Enterprise Linux (RHEL)
	NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit

our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page: http://www.hp.com/support/MicroServer



Service and Support

Service and Support

For increased uptime, productivity and ROI -HP Care Pack packaged services for Servers

These days, you need to get the most out of your server investment-you can't afford not to. When you buy HP server products and solutions, it's also a good time to think about what levels of service and support you may need. To help take the worry out of deploying, designing, maintaining, and managing your environment, we've designed a portfolio of service options that are as: flexible, reliable and scalable as your server. Unlike server-only vendors, we take a holistic approach to your entire environment, bridging storage, servers, blades, software and network infrastructures with our HP Care Pack packaged services for Servers.

HP Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HP Care Pack Services offer a standard reactive hardware and software support services suite sold separately, or combined with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HP server and storage lifecycle support services offer a full spectrum of customer care-from technology support to complex migrations to complete managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HP Financial solutions extend innovative financing and cost-effective asset management programs-from purchase to equipment retirement. Learn more: www.hp.com/services/servers

NOTE: Care Pack Services availability may vary by product and country.

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at http://www.hp.com/go/lookuptool



Service and Support

Recommended HP Care Pack Services for optimal satisfaction with your HP product

Recommended Services

3-Year HP Hardware Support Onsite Service, 4-hour response, 13x5

Delivers increased equipment availability and productivity with rapid remote support and onsite response for your HP server and storage hardware.

The benefits include:

- · Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE.pdf

3-Year HP Hardware Support Onsite Service, Next-day response (9x5)

Provides high-quality remote assistance and onsite support for your covered hardware, helping you to improve product uptime.

The benefits include:

- Help improve or maintain system uptime
- Convenient onsite support
- · Reliable response time

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE.pdf

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

- Expedited installation, with all service prerequisites met before the installation is performed
- Installation in accordance with manufacturer's specifications, enhancing the supportability of your HP-installed hardware and software
- Service delivery at a mutually scheduled time
- Allows your IT resources to stay focused on their core tasks and priorities
- Availability of an HP service specialist to answer questions during the onsite delivery of this service

http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf





Service and Support

Optional HP Care Pack Services that will enhance your HP product experience

Optional Services 3-Year HP Hardware Support Onsite Service, 4-hour response, 24x7

As an alternative to our recommended support level, for customers who need same day response service level 24x7.

Provides you with an HP authorized representative who will arrive at the Customer's site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE.pdf

3-Year HP Hardware Support Onsite Call-to-Repair (CTR) Service, 6- or 24-hour

As an alternative to our recommended support level, for customers who need committed call-to-repair for server hardware.

Provides your IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 or 24 hours of the initial service request to the HP Global Solution Center.

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf

HP Proactive Select Service

Customer needs on demand access to consulting, technical proactive services and education courses.

Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months.

http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN.pdf

eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information



Service and Support

Customer Technical Training

HP Education Services

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

HP Services Awards

HP Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.

Additional Services Information

To learn more on HP ProLiant servers and HP BladeSystem, please contact your HP sales representative or HP Authorized Channel Partner, or visit: www.hp.com/services/proliant or www.hp.com/services/bladesystem



Models

SATA Models

NOTE: Not all models are available in all regions. Check with your local country HP offices for availability.

HP Micro G7 N54L NHP Processor (1) AMD Turion™ II Neo N54L processor (2.2 GHz, 15W, 2MB)

250GB Svr 704941-xx1

Cache Memory 2x 1MB Level 2

2GB (1 x 2GB) PC3-10600E DDR3 UB ECC Memory

NOTE: Total of 2 DIMM slots.

Network Controller Embedded NC107i PCI Express Gigabit Ethernet Server Adapter

Embedded SATA Controller with Embedded RAID (0, 1) **Storage Controller**

Hard Drive 1x250GB Non-hot plug LFF SATA

Internal Storage Non-Hot Plug SATA 8.0TB (4 x 2TB) Maximum

Optical Drive None ships standard

Power Supply 150W Non-Hot Plug, Non-Redundant Power Supply

Operating System None Warranty 1-0-0

Form Factor Ultra Micro Tower

NOTE: Server model PN (708245-425) available in Europe only.

HP Micro G7 N54L NHP Processor (1) AMD Turion™ II NEO N54L processor (2.2 GHz, 15W, 2MB)

Svr

Cache Memory 2x 1MB Level 2 708245-425

4GB (1 x 4GB) PC3-10600E DDR3 UB ECC Memory

NOTE: Total of 2 DIMM slots.

Network Controller Embedded NC107i PCI Express Gigabit Ethernet Server Adapter

Storage Controller Embedded SATA Controller with Embedded RAID (0, 1)

Hard Drive

Internal Storage Non-Hot Plug SATA 8.0TB (4 x 2TB) Maximum

Optical Drive SATA DVD-RW JB Drive

150W Non-Hot Plug, Non-Redundant Power Supply **Power Supply**

Warranty 1-1-1

Form Factor Ultra Micro Tower

US xx=00**Country Code Key**

> xx=20 Brazil xx=29 Japan APD xx=37

xx=42Europe (Available Europe only (PN 708245-425)

xx=AA **PRC**



HP Wireless 802.11 b/g/n PCIe Card	FH971AA
HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593921-B21
HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.	
HP Half-Height SATA DVD RW JackBlack Optical Drive	624192-B21
HP Half-Height SATA DVD ROM JackBlack Optical Drive	624189-B21
HP Half-Height SATA DVD-ROM Optical Drive	447326-B21
NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.	
·	
HP 2TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty	
HP 1TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	507772-B21
HP 500GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	458941-B21
SATA Non-Hot Plug LFF (3.5-inch) Entry (ETY) Drives	
HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1yr Warranty Hard Drive	
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html	
	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. HP Half-Height SATA DVD RW JackBlack Optical Drive HP Half-Height SATA DVD ROM JackBlack Optical Drive HP Half-Height SATA DVD-ROM Optical Drive NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives HP 2TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive HP 1TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive HP 500GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive SATA Non-Hot Plug LFF (3.5-inch) Entry (ETY) Drives HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1yr Warranty Hard Drive NOTE: Please see the QuickSpecs for Technical Specifications and additional information:



HP NC112T PCI Express Gigabit Server Adapter

503746-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs



Additional Options

HP Remote Management	HP MicroServer Remote Access Card Kit	615095-B21		
HP Security	HP Trusted Platform Module Option NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: www.hp.com/go/TPM. NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment. NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.			
HP Tape Backup	NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK.			
	HP DAT72 SCSI External Tape Drive	Q1523C		
HP Disk Backup	NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx			
	USB Removable Media RDX Disk Backup Systems			
	HP RDX320 USB3.0 Internal Disk Backup System	B7B62A		
	HP RDX320 USB3.0 External Disk Backup System	B7B63A		
HP Uninterruptible	HP Tower - UPS			
Power Systems	HP T750 G2 750VA NA Tower Uninterruptible Power System	AF446A		
	HP T750 G2 750VA INTL Tower Uninterruptible Power System	AF447A		
	HP T750J JP Uninterruptible Power System	AF456A		
	NOTE: For additional information please go to: http://www.hp.com/go/rackandpower (Worldwide) NOTE: Please see QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/13160_div/13160_div.html NOTE: For additional information on sizing your server, please reference: http://www.upssizer.com			



Additional Options

ΗP	USB	and	SD
Op	tions		

HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	

http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html (Worldwide)

HP USB Standard Keyboard

DT528A#ABA

THE DATE FACE OF VICES IN 5 YEAR INCAL DUSINESS MAY FIDE ALL WINDOOD FOR FIRM WATCH DUDDOIL	HP Care Pack Services HP	3 year Next business day ProLiant MicroServer Hardwa	are Support UR482
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HP 3 year 4 hour 13x5 ProLiant MicroServer Hardware Support	UR483E
HP 3 year 4 hour 24x7 ProLiant MicroServer Hardware Support	UR484E
HP 3 year 24x7 24 hour Call to Repair ProLiant MicroServer Hardware Support	UR492E
HP 3 year 24x7 6 hour Call to Repair ProLiant MicroServer Hardware Support	UR494E
HP 4 year Next business day ProLiant MicroServer Hardware Support	UR496E
HP 4 year 4 hour 13x5 ProLiant MicroServer Hardware Support	UR498E
HP 4 year 4 hour 24x7 ProLiant MicroServer Hardware Support	UR500E
HP 5 year Next business day ProLiant MicroServer Hardware Support	UR502E
HP 5 year 4 hour 13x5 ProLiant MicroServer Hardware Support	UR504E
HP 5 year 4 hour 24x7 ProLiant MicroServer Hardware Support	UR506E
HP Install ProLiant MicroSever Service	UR508E

NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack.



Memory

HP ProLiant Micro Server

Standard Memory

2GB (1x2GB) or 4GB (1x4GB) of PC3-10600E DDR3 UDIMM Memory kit installed

Standard Memory Replaced with Optional Memory

Up to 8GB of memory is available with the removal of the standard 2GB of memory and the optional installation of 2 x 4 GB PC3-10600E DDR3 UDIMM Memory kits.

NOTE: The below chart does not represent all possible memory configurations.

		, ,	
Memory		S	lot
		1A	2B
Standard	1 GB	1 GB	Empty
Optional	2 GB	2 GB	Empty
Optional	2 GB	1 GB	1 GB
Optional	4 GB	4 GB	Empty
Optional	4 GB	2 GB	2 GB
Maximum	8 GB	4 GB	4 GB

Following are memory options available from HP:

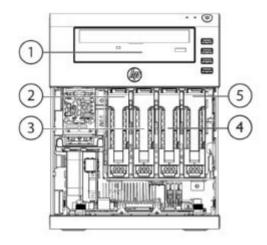
Memory Kit

rollowing are life	nory options available noin HP.	
HP Memory	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593923-B21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593921-B21
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9	500668-B21



Storage

1 Optical Drive Bay



2, 3, 4, 5 Four (4) Non-Hot Plug Drive Bays

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media DVD-RW Drive	1	1	Integrated SATA

Hard Drives (SATA Models only)

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
2TB 3G SATA 7.2K 1TB 3G SATA 7.2K	Up to 4	2-5	SATA controller with Embedded RAID on Motherboard (0,1)
500GB 3G SATA 7.2K			

SATA Non-Hot Plug LFF (3.5-inch) Entry (ETY) Drives

·	Quantity Supported	Position Supported	Controller
250GB 3G SATA 7.2K	Up to 4	2-5	SATA controller with Embedded RAID on Motherboard (0,1)

Maximum Storage Capacity

Internal SATA 8.0TB (4 x 2TB)



Storage

Tape Drives and Disk-Based Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media, including the internal fitting models, see: http://www.hp.com/go/tape. For the complete range of D2D Backup Systems see: http://www.hp.com/go/d2d. For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk and tape backup products see: http://www.hp.com/storage/SPOCK.

Position	Recommended Controller	Part Number
Internal	USB 2.0 Port	N/A
External		
Internal or External	USB 2.0 port	N/A
	Internal External Internal or	Internal USB 2.0 Port External Internal or USB 2.0 port



Power Specifications

Part Number	630295-001					
Operational Input Voltage Range	100 to 127 and 200 to 240 V auto ranging					
(Vrms)						
Frequency Range (Nominal) (Hz)	50 to 60 Hz					
Nominal Input Voltage (Vrms)	100	115	208	220	230	240
Max Rated Output Wattage Rating	150	150	150	150	150	150
Nominal Input Current (A rms)	N/A	3.5	N/A	2	2	N/A
Max Rated Input Wattage Rating (Watts)	191.4	N/A	N/A	N/A	184.9	N/A
Max. Rated VA (Volt-Amp)	N/A	N/A	N/A	N/A	N/A	N/A
Efficiency (%)	70%	70%	N/A	N/A	70%	N/A
Power Factor	N/A	0.9	N/A	N/A	0.9	N/A
Leakage Current (mA)	N/A	3.5	N/A	N/A	3.5	N/A
Maximum Inrush Current (A peak)	N/A	No	N/A	N/A	No	N/A
		component			component	
		was			was	
		damaged			damaged	
		and input			and input	
		fuse shall not			fuse shall not	
		blow			blow	
Maximum Inrush Current duration (mS)	N/A	N/A	N/A	N/A	N/A	N/A

To review typical system power ratings use the Active Answers HP Power Advisor which is available via the online tool located at URL: http://www.hp.com/go/hppoweradvisor

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest
- Click on: "Power Calculator" link. (You may need to scroll down to see it)



System Specifications

	Power**
HP ProLiant MicroServer Fully Configured	(see**)
Fully Loaded System output Wattage (W)	72.3 W
Fully Loaded System Input Current (A rms)	0.63A@115V; 0.35A@230V
Fully Loaded System Thermal (BTU- Hr)	115v@247.055; 230v@274.505
Fully Loaded System VA (Volt-Amp)	115v@72.45; 230v@80.5
System Leakage with all power supplies loaded (mA)	0.91
System Inrush Current with all power supplies loaded (A)	No component damaged
Power cord requirements	Nema 5-15P to IEC320-C13
	IEC320-C13 to IEC320-C14
	**Power shown is for a fully configured system consisting of
	(1) CPU, (2) double-sided DIMMs, (4) HDDs, (1) DVD-ROM,
	(1) PCIe X16 card & (1) PCIe X1 card and (1) power supply.

Power Cords	Power Cord Part Number	
Country		
Australia	100661-001	
Brazil	438723-001	
Euro	100614-009	
France	100614-009	
Germany	100614-009	
India	397138-002	
Japan	139867-005	
PRC	286496-001	
Philippines/Thailand	285052-003	
Taiwan	393312-001	
UK	100613-008	
US	121565-001	



Technical Specifications

System Unit Dimensions (HxWxD) 10.5 x 8.3 x 10.2 in (26.7x 21.0 x 26.0 cm)

(with feet)

Weight (approximate) Maximum 21.16 lb (9.6 kg)

(all hard drives, power supplies, and processors

installed)

Minimum 13.18 lb (5.98 kg)

(one hard drive, power supply, and processor

installed)

Input Requirements

(per power supply)

Rated Line Voltage 100 -- 127 VAC,

200 - 240 VAC

Rated Input Current 3.5 A (at 110 VAC),

2 A (at 200 VAC)

Rated Input Frequency 47 to 63 Hz

Rated Input Power 191.4 W (at 100 VAC),

184.9 W (at 200 VAC)

BTU Rating Maximum 247.055 BTU/hr (at 100 VAC),

274.505 BTU/hr (at 200 VAC)

Power Specifications To review typical system power ratings use the Power Advisor which is

available via the online tool located at URL:

http://www.hp.com/go/hppoweradvisor

Power Supply Output

(per power supply)

Rated Steady-State Power 150 W (at 100 VAC), 150 W (at 200 VAC)

Maximum Peak Power 200 W (at 100 VAC),

200 W (at 200 VAC

System Inlet Temperature Operating

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options

installed.

System performance may be reduced if operating with a fan fault or above 35°C

(95°F).

Non-operating 10 to 90% relative humidity (Rh), 28°C

5 to 95% relative humidity (Rh), 38.7°C

Altitude Operating 3050 m (10,000 ft). This value may be limited

by the type and number of options installed. Maximum allowable altitude change rate is

457 m/min (1500 ft/min).

Non-operating 9144 m (30,000 ft). Maximum allowable

altitude change rate is 457 m/min (1500

ft/min).

Acoustic Noise Idle

(Fully Loaded) L WAd 3.9 BELS

L pAm 22.3 dBA

Operating

L WAd 4.1 BELS L pAm 24.4 dBA



Technical Specifications

Acoustic Noise

(Lightly Loaded) L WAd **3.7 BELS**

Idle

L pAm 21.3 dBA

Operating

L WAd **3.8 BELS**

L pAm 22.0 dBA

Emissions FCC Rating Class B Classification (EMC)

Normative Standards CISPR 22; EN55022; EN55024; FCC CFR 47,

> Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN

60950-1; IEC 60950-1

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and

statements.

HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1y **Warranty Hard Drive**

571232-B21 Capacity 250,059MB

> Heiaht 1.028 in. (26.1 mm)

Maximum drive dimension

Width 4.0 in. (101.6 mm) Depth 5.787 in (147.0 mm)

Maximum drive dimension

Interface Serial ATA 3Gb/s Transfer rate

synchronous (maximum)

Native Command Supported

Queuing

Seek time (typical reads, Single track 2.0 ms including settling) Average 11 ms

Full-stroke 21.0 ms Rotational speed 7,200 rpm

Physical Configuration Bytes/Sector 512

> Logical Blocks 488,397,168

Operating Temperature50° to 95° F (10° to 35° C)

Embedded SATA controller

SATA Protocol SATA 2, 3Gb/s **SATA Ports** 5 internal 3Gb/s total Port transfer rate

Maximum Capacity up to 8.0TB (4 x 2TB non-hot plug SATA HDD)

RAID Levels Supported RAID 1 (Mirroring)

RAID 0 (Striping)

Supported

Logical RAID Volumes NOTE: On SATA models with embedded RAID, setup instructions are

located in the MicroServer User Guide

Technical Specifications

Embedded NC107i PCIeNetwork Interface Gigabit Server Adapter Compatibility

10Base-T/100Base-TX/1000Base-TX

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T

IEEE 802.3u 100Base-TX

Data Transfer Method

Single lane (x1), 100MHz PCI Express Reference Clock

Controller

BCM5723

Network Transfer Rate 10Base-T (Half-Duplex)

10 Mb/s 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-100 Mb/s

Duplex)

100Base-TX (Full-

200 Mb/s

Duplex)

1000Base-TX (Half and

2000Mb/s

Full-Duplex)

RJ-45 connector

Connector

10Base-T Categories 3, 4 or 5 UTP; up to 328 ft (100 m)

10/100/1000Base-TX

Category 5 UTP; up to 328 ft (100 m)

Environment-friendly Products and Approach

End-of-life Management and Recycling

Cable Support

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP

equipment.

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

