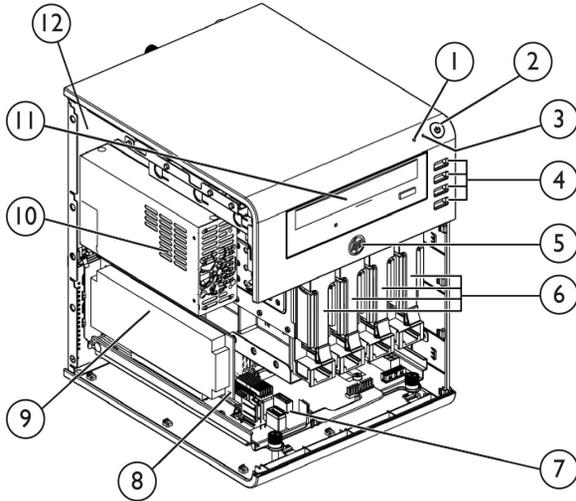
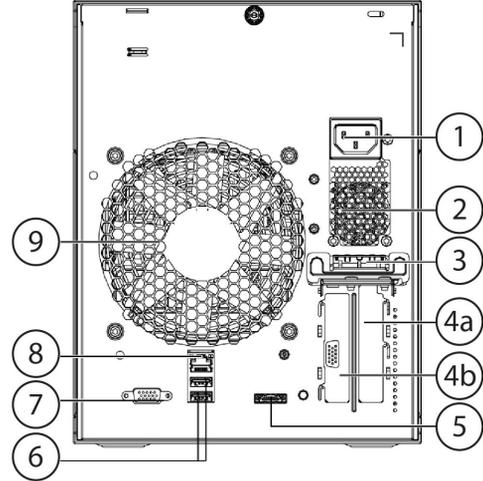


Overview



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

- New pre-configured BTO model with 4GB UDIMM

Overview

At A Glance

- **Processor:**
 - AMD Turion™ II Neo N54L (2.2GHz)
 - AMD RS785E/SB820M chipset
- **Memory:**
 - Two (2) DIMM slots
 - 4GB (1x4GB) Standard/8GB Maximum, using PC3-10600E DDR3 Unbuffered (UDIMM) ECC memory, operating at max. 800MHz
- **Storage Controller:**
 - 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:**
 - 4 Internal HDD Support
 - 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:**
 - Slot 1: PCI-Express Gen 2 x16 connector with x16 link
 - Slot 2: PCI-Express Gen 2 x1 connector with x1 Link
 - Slot 2-2: PCI-Express x4 slot for optional management card
- **USB 2.0 Ports:**
 - 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:**
 - Optional MicroServer Remote Access Card
- **Operating System:**
 - Supports Windows and Red Hat Linux
- **Form Factor:**
 - Ultra Micro tower
- **Warranty:**
 - 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 cache

Chipset AMD RS785E/SB820M

Memory Protection ECC

Memory Type PC3-10600E unbuffered DDR3 ECC operating at 800MHz
Standard 1 GB (1x1GB)
 4GB (1x4GB)
Maximum 8 GB

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	x1	x1	2h	Half height, half length slot	

* Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

** Indicates the number of physical electrical lanes running to a PCI-e connector.

Storage Controller Integrated SATA controller with embedded RAID (0, 1)
NOTE: Embedded RAID setup instructions are located in the MicroServer User Guide.

Internal Storage Devices Optical Drive Optional: Half-Height SATA DVD-RW drive
Hard Drives None included

Maximum Internal Storage Non-Hot Plug SATA 8TB (4 x 2TB) 3.5" SATA

Standard Features

Interfaces

Graphics	On board VGA
USB 2.0 Ports	7 total (2 rear, 4 front panel, 1 internal)
Network RJ-45 (Ethernet)	1 (10/100/1000 bits/s)
eSATA Gen 2	1 rear

Graphics

128MB shared supporting 1920x1200 @ 60Hz

Form Factor

Ultra Micro Tower

Industry Standard Compliance

ACPI V2.0 Compliant
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

HP ProLiant MicroServer G7 N54L 1P 4GB-U Non- hot Plug SATA 150W PS Server 744900-001	Processor	(1) AMD Turion™ II Neo N54L processor (2.2 GHz, 15W, 2MB)
	Cache Memory	2x 1MB Level 2
	Memory	4GB (1 x 4GB) PC3-10600E DDR3 UB ECC 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	None
	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	

HP ProLiant MicroServer G7 N54L 1P 2GB-U Non- hot Plug SATA 250GB 150W PS Server 704941-001	Processor	(1) AMD Turion™ II Neo N54L processor (2.2 GHz, 15W, 2MB)
	Cache Memory	2x 1MB Level 2
	Memory	2GB (1 x 2GB) PC3-10600E DDR3 UB ECC 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	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	

Core Options

HP Unique Options	HP Wireless 802.11 b/g/n PCIe Card	FH971AA
HP Memory	HP 4GB (1x4GB) 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 .	593923-B21 500668-B21
HP Optical Drives	HP Half-Height SATA DVD RW JackBlack Optical Drive HP Half-Height SATA DVD ROM JackBlack Optical Drive	624192-B21 624189-B21
HP Hard Drives	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 NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13021_na/13021_na.html	507774-B21 507772-B21 458941-B21
HP Networking	HP NC112T PCI Express Gigabit Server Adapter NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs	503746-B21

Additional Options

HP Remote Management HP MicroServer Remote Access Card Kit 615095-B21

HP Security HP Trusted Platform Module Option 488069-B21

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 Disk Backup **NOTE:** For the complete range of RDX drives and media see: <http://www.hp.com/go/rdx>. For hardware and software compatibility of HP disk backup products see: <http://www.hp.com/storage/SPOCK>.

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 RDX500 USB3.0 Internal Disk Backup System B7B64A

HP RDX500 USB3.0 External Disk Backup System B7B66A

HP RDX1000 USB3.0 Internal Disk Backup System B7B67A

HP RDX1000 USB3.0 External Disk Backup System B7B69A

HP RDX USB 3.0 Internal Docking Station

HP RDX USB 3.0 Internal Docking Station C8S06A

HP RDX USB 3.0 External Docking Station

HP RDX USB 3.0 External Docking Station C8S07A

NOTE: Please see the QuickSpecs for additional part numbers, Technical Specifications, and additional information:

http://h18000.www1.hp.com/products/quickspecs/13036_na/13036_na.html

Additional Options

HP Uninterruptible Power Systems **HP Tower - UPS**

HP T750 G2 750VA NA Tower Uninterruptible Power System AF446A

NOTE: For additional information please go to: <http://www.hp.com/go/rackandpower>

NOTE: Please see QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/13160_na/13160_na.html

NOTE: For additional information on sizing your server, please reference: <http://www.upssizer.com>

HP Rack Options

HP USB Keyboard and Mouse

HP USB BFR with PVC Free US Keyboard/Mouse Kit 631341-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/13972_na/13972_na.html

HP USB and SD options

Other USB and SD Options

HP USB Standard Keyboard DT528A ABA DT528A#ABA

HP Care Pack Services

HP 3 year Next business day ProLiant MicroServer Hardware Support UR482E

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 MicroServer Service UR508E

NOTE: For more information, customer/resellers can contact:

<http://www.hp.com/services/carepack>.

Memory

HP ProLiant Micro Server

Standard Memory

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 optional installation of 1 x 4 GB PC3-10600E DDR3 UDIMM Memory kits.

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

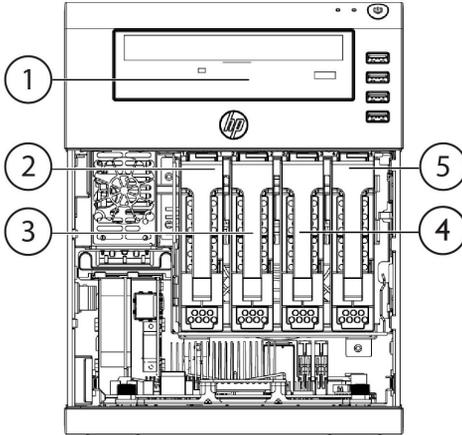
Memory		Slot	
		1A	2B
Optional	1 GB	1 GB	Empty
Optional	2 GB	1 GB	1 GB
Standard	4 GB	4 GB	Empty
Maximum	8 GB	4 GB	4 GB

Following are memory options available from HP:

HP Memory	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593923-B21
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	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 JackBlack Optical Drive	1	1	Integrated SATA
DVD ROM JackBlack Optical 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 500GB 3G SATA 7.2K	Up to 4	2-5	SATA controller with Embedded RAID on Motherboard (0,1)

Storage

Maximum Storage Capacity

Internal	SATA	8.0TB (4 x 2TB)
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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
HP USB RDX Removable Disk Backup System	Internal or External	USB 2.0 port	N/A
RDX160			
RDX320			

Power Specifications

Part Number	630295-001					
Operational Input Voltage Range (Vrms)	100 to 127 and 200 to 240 V auto ranging					
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 component was damaged and input fuse shall not blow	N/A	N/A	No component was damaged and input fuse shall not blow	N/A
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 Cord Part Number	121565-001
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Technical Specifications

System Unit	Dimensions (HxWxD) (with feet)	10.5 x 8.3 x 10.2 in (26.7x 21.0 x 26.0 cm)	
	Weight (approximate)	Maximum (all hard drives, power supplies, and processors installed)	21.16 lb (9.6 kg)
		Minimum (one hard drive, power supply, and processor installed)	13.18 lb (5.98 kg)
	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 (Fully Loaded)	Idle	
		L WAd	3.9 BELS
		L pAm	22.3 dBA

Technical Specifications

	Operating		
	L WAd	4.1 BELS	
	L pAm	24.4 dBA	
Acoustic Noise (Lightly Loaded)	Idle		
	L WAd	3.7 BELS	
	L pAm	21.3 dBA	
	Operating		
	L WAd	3.8 BELS	
	L pAm	22.0 dBA	
Emissions Classification (EMC)	FCC Rating	Class B	
	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.

Embedded SATA controller	SATA Protocol	SATA 2, 3Gb/s	
	SATA Ports	5 internal	
	Port transfer rate	3Gb/s total	
	Maximum Capacity	up to 8.0TB (4 x 2TB non-hot plug SATA HDD)	
	RAID Levels Supported	RAID 1 (Mirroring) RAID 0 (Striping)	
	Logical RAID Volumes Supported	NOTE: On SATA models with embedded RAID, setup instructions are located in the MicroServer User Guide	

Embedded NC107i PCIe Gigabit Server Adapter	Network Interface 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 Controller	Single lane (x1), 100MHz PCI Express Reference Clock BCM5723		
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s	
		10Base-T (Full-Duplex)	20 Mb/s	
		100Base-TX (Half-Duplex)	100 Mb/s	
		100Base-TX (Full-Duplex)	200 Mb/s	
	1000Base-TX (Half and Full-Duplex)	2000Mb/s		
Connector	RJ-45 connector			

Technical Specifications

Cable Support	10Base-T 10/100/1000Base-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 UTP; up to 328 ft (100 m)
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Environment-friendly Products and Approach

End-of-life Management and Recycling

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.