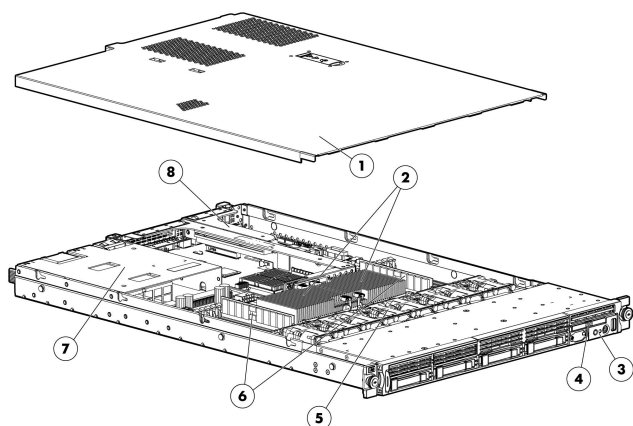
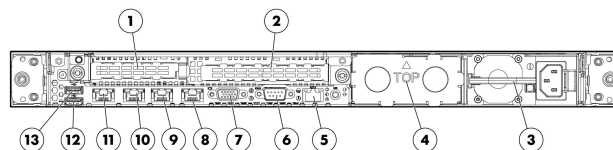


Overview



HP Business Decision Appliance - Front View

1. Hood cover
2. Two Intel processors
3. Video connector
4. Slide-out System Insight Display (SID)
5. Removable fan modules for easy serviceability
6. Redundant Hot Plug Power Supplies
7. 2 PCI-E Slots



HP Business Decision Appliance - Rear View

1. PCI Express expansion slot 1, low profile
2. PCI Express expansion slot 2 full-height, full-length
3. Power supply bay 1
4. Power supply bay 2
5. iLO 3 NIC connector
6. Serial connector
7. Video connector
8. NIC 4 connector
9. NIC 3 connector
10. NIC 2 connector
11. NIC 1 connector
12. USB connector
13. USB connector

At A Glance

The HP Business Decision Appliance, optimized for SQL Server 2008 R2 and SharePoint Server 2010, has been designed jointly with Microsoft to empower business users to both develop unique business insights by analyzing massive quantities of data through familiar Microsoft tools and to personalize and share data with colleagues leading to better, faster, more relevant business decisions.

Combining concentrated compute power of the HP ProLiant DL360 G7 and Microsoft's most popular business intelligence platform, The HP Business Decision Appliance is pre-configured, tested and optimized to provide easy one touch deployment to users, allowing for fast implementation without heavy reliance on IT resources. The HP Business Decision Appliance installs and integrates into your environment quickly and easily through an automated installation and configuration process; comes with example business data, a unique business insight dashboard to simplify day to day management tasks, and will easily integrate with existing data sources.

This solution will facilitate business user access to data that has been previously unavailable. Users can create and publish intuitive and interactive self-service business analysis providing quick-hitting, up-to the minute analysis of business data.

The HP Business Decision Appliance is built on well-established HP and Microsoft technologies and functionality including:

- HP ProLiant DL360 Generation 7



Overview

- HP Insight Control suite of software
- Factory Integration
- Microsoft Windows Server 2008 R2 Enterprise Edition
- Microsoft SharePoint Server 2010
- Microsoft SQL Server 2008 R2 Enterprise
- HP support services for HP and Microsoft components

At the heart of the HP Business Decision Appliance, the HP ProLiant DL360 G7 combines performance, intelligent power and cooling management with IT management tools and essential fault tolerance, all optimized for space constrained installations. A 1U server with the improved performance of the Intel 5650 processors, Unique HP Thermal Logic Technologies that provide leadership in energy efficiencies and ProLiant iLO 3 remote management. HP continues to provide more performance, flexibility and efficiency for space constrained environments.

The HP Business Decision Appliance includes:

- **Processors:**
 - 2 Six-Core Intel® Xeon® 5650 processors
 - Intel® 5520 Chipset
- **Memory:**
 - 12 HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit
 - 96GB total at memory speeds of 1333MHz (based on selected processors, memory DIMMs and population)
 - 6 DDR3 DIMM slots
- **Storage Controller:**
 - HP Smart Array P410i Controller (RAID 0/1/1+0/5/5+0)
 - Installed Smart Array upgrade: 512MB BBWC upgrade
- **Internal Drive Support:**
 - 8 small form factor (SFF) hot-plug drive bay options
 - 1 HP DL360 G6 SFF HD Backplane Kit
- **Installed HP Hard Drives:**
 - 8 SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives: HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive
- **Network Controller:**
 - Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4 x 1Gb ports total) with TCP/IP Offload Engine, including support for Accelerated iSCSI, plus additional iLO 3 NIC
- **Expansion Slots:**
 - Two PCI-Express Gen 2 expansion slots: (1) full-length, full-height slot and (1) low-profile slot
- **Ports:**
 - USB 2.0 Support: 4 Total: (1) front, (1) internal for security and (2) rear accessible ports
 - 1 internal Secure Digital (SD) slot
 - Video (2 ports, 1 front and 1 rear)
 - Serial port, 1 rear
 - NOTE: PS/2 ports have been removed for NIC expansion.
- **Redundancy:**
 - Multiple layers of fault tolerance through critical component redundancy (power supply and fan redundancy), mirrored memory, embedded RAID capability, and full-featured remote iLO 3 management.
- **HP Unique Technology:**
 - Built-In Thermal Logic Technologies
 - Sea of Sensors: Intelligent automated management of power and cooling systems to save energy costs
 - Dynamic Power Capping, customer set limits for reduced power usage within performance requirements
- **Power Sources:**
 - Dual Common Slot (CS) Bays for High Efficiency, Right Sized, Hot plug and Redundant Power options. Installed option:
 - HP 460W CS HE Gold (92% Efficiency) Power Supply



Overview

- **Infrastructure Management:**
 - Convenient slide-out Systems Insight Display (SID) for quick and easy front view of server status LEDs, server diagnostics, Automatic Server Recovery (ASR) and ROM Based Setup Utility (RBSU)
 - HP Integrated Lights-Out 3 (iLO 3) management processor for simplified server setup, health monitoring and recovery, power and thermal control, and lights out remote administration.
 - HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, control and optimize your IT infrastructure through a single, simple management console.
 - Based central management servers.
- **Form Factor:**
 - 1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep
- **Deployment/Serviceability:**
 - Sliding rails for in rack servicing ship standard; optional 1U Cable Management Arm
 - Includes 3-year Support Plus (5 x 13, 4-hour response) for HP hardware and Microsoft software
 - 3 year Support Plus 24 (24x7 hardware and software support with 4 hour on-site hardware response time)

For more information about the HP Business Decision Appliance, see: <http://www.hp.com/solutions/microsoft/sqlbi>

For more information about HP Insight software, see: <http://www.hp.com/go/insight>

For more information about StorageWorks, see: <http://www.hp.com/go/storageworks>

For more information about Microsoft software see: www.microsoft.com

For more information about the HP ProLiant DL360 G7 see:

http://h18004.www1.hp.com/products/quickspecs/13598_div/13598_div.html



How to Order

How to order the Business Decision Appliance The method for purchasing is simple. You need only order one SKU to get a complete solution which includes preconfigured hardware and software components from HP, operating system and application software from Microsoft, and 3 years of HP support.

The Business Decision Appliance (PN BW876A) includes all of the HP hardware, HP software, and Microsoft Operating System components. Microsoft SharePoint Server 2010 Enterprise Edition and Microsoft SQL Server R2 2008 Enterprise Edition are both preinstalled and preconfigured, though customers must acquire the licenses separately. Customers may purchase those licenses from HP, other suppliers, or leverage previously purchased volume licenses. In addition, 3 year Support Plus 24 (24x7 hardware and software support with 4 hour on-site hardware response time) covering all components of the appliance, including Microsoft software (Windows Server 2008, SharePoint Server 2010 and SQL Server 2008).



Standard Features

HP Business Decision Appliance software

The HP Business Decision Appliance comes standard with software from both HP and Microsoft. Windows Server 2008 R2 is included, with licenses. SharePoint Server 2010 and SQL Server 2008 are both preinstalled. Licenses may be purchased from HP or other suppliers; or customers can leverage previously purchased volume licenses. Support Plus for all components is a standard part of the solution.

The included installation wizard automates the SQL Server 2008 and SharePoint Server 2010 installation tasks, as well as optimizes the software configuration to host a self-service BI environment, leveraging the Microsoft PowerPivot technology. Only a few short questions need to be answered to initiate the silent installation process; the system will be ready to use in less than an hour. At the end of the automated installation and configuration process users will have access to sample data and tools to quickly gain insight into business data. The included Management Dashboard has been developed specifically for HP's Business Decision Appliance to reduce users' dependence on IT for common maintenance tasks such as web site maintenance, monitoring SharePoint Server 2010 and server health, and performing backup and restore functions.

NOTE: Your use of Microsoft SharePoint Server 2010 and Microsoft SQL Server 2008 R2 Enterprise Edition software provided on this server hardware is subject to the terms and conditions of the Volume License program agreement under which you have acquired licenses to these Microsoft products. You may not use the above software without first acquiring valid server and/or client access licenses from Microsoft or its authorized distributor or reseller. For more information see <http://www.microsoft.com/sqlserver/en/us/get-sql-server/how-to-buy.aspx> Microsoft Windows Server 2008 R2 Enterprise Edition software provided on this server hardware is subject to the Microsoft Software License Terms provided to you by Hewlett-Packard Company or its authorized reseller. The genuine Certificate of Authenticity label affixed to the server hardware identifies licensed software

HP Insight management software

HP Insight Foundation

- Managing the growing number of servers can be complex and expensive for your organization. IT managers need to address changing business needs with tools that meet the challenges of managing today's complex Datacenters
- HP provides management solutions that are designed to simplify a server's installation, configuration and maintenance throughout the entire server lifecycle. This provides the customer with higher levels of operational efficiency and highly reliable systems: www.hp.com/go/foundation.
- The foundation pack includes
 - HP SmartStart
 - SmartStart version supported (minimum): SmartStart 8.40. <http://www.hp.com/servers/smartstart>
 - HP Management
 - HP ProLiant Firmware Maintenance

HP Integrated Lights-Out 3 (iLO 3) (included with each model)

HP Integrated Lights-Out 3 (iLO) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP iLO functions without additional software and can be accessed from any location via a web browser. HP iLO works hand-in-hand with HP Systems Insight Manager, Insight Control suites, and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: www.hp.com/go/iLO



Standard Features

HP Insight Control
(included with each model)

HP Insight Control delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. See www.hp.com/go/insightcontrol

Warranty services

The Business Decision Appliance 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 three years from date of purchase.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>.

Beyond the warranty, 3 year Support Plus 24 is included as a part of the standard offering, providing 24x7 hardware and software support with 4 hour on-site hardware response time covering all components of the appliance, including Microsoft software. Customers may upgrade to higher support levels or extended durations. See the Ordering Support Care Packs section.

HP Financial Services

To support customers' transition, HP Financial Services (HPFS) can help in a way that you may not have considered. HPFS can help you invest in your business while preserving precious capital.

For more information, contact your local HP Financial Services Representative. In the United States, call 1-888-277-5942. In Canada, dial 1-800-HP-LEASE. For more information please visit: www.hp.com/hpfinancialservices for links to HP Financial Services around the world.

Rack Airflow Requirements

Rack 10000 G2 series cabinets (Optional)

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The HP 10000 G2 Series racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- **Front and rear doors:** If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- **Side:** The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels will result in improper cooling that can lead to thermal damage.

NOTE: For additional information, refer to the Quick Start Guide or to the server documentation located in the Support section at the following URL: www.hp.com/servers/dl360.



Configuration Information - Factory Integrated Models

NOTE: This section lists the standard features included in the HP Business Decision Appliance

NOTE: All components are factory integrated and have been localized to US English.

NOTE: Software is preinstalled and preconfigured.

Step 1: Order HP's Business Decision Appliance

HP Business Decision
Appliance

HP Business Decision Appliance

BW876A

HP Business Decision Appliance configuration includes the following:

One (1) HP ProLiant DL360 G7 Rack Chassis includes:

- Two (2) Intel® Xeon® Processor X5650 (2.66 GHz, 12MB L3 Cache, 95 Watts, DDR3-1333, HT Turbo 2/2/2/2/3/3)
- Twelve (12) HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit
- Eight (8) HP 300GB 6G SAS 10K SFF (2.5 inch Dual Port Enterprise Hard Drives
- One (1) HP DL3600G6 SFF HD Backplane Kit
- One (1) HP Smart Array Controller P410i/512 MB with BBWC
- Two (2) HP 460W CS HE Gold Power Supply 92% Efficiency
- 3 year warranty
- Business Decision Appliance Getting Started Guide
- Microsoft Windows Server 2008 R2 Enterprise Edition (including license)
- Microsoft SQL Server 2008 R2 Enterprise (see note below)
- Microsoft SharePoint Server 2010 (see note below)
- HP Insight Control, Factory-Integration License Option for ProLiant ML/DL server, including HP Integrated Lights-Out Advanced, No Media, 1-Server License
- 3 year Support Plus 24 (24x7 with 4 hour on-site hardware response time) for all components listed above
- Licenses for all HP software and the Microsoft OS

NOTE: The Business Decision Appliance does not include licenses for SQL Server 2008 and SharePoint Server 2010. Those licenses must be purchased separately, from HP or another vendor. Licenses for the HP software and the Windows operating system are included. Support for all components, including SQL Server 2008 and SharePoint Server 2010, is a standard part of the solution.



Configuration Information - Factory Integrated Models

Step 2: Choose HP Care Pack Support

HP Service and Support 3yr Support Plus 24 is included with HP Business Decision Appliance. Customers have the opportunity to upgrade to Proactive 24 Service or Critical Service, or to add Proactive Select to these reactive support Care Packs.

To upgrade support levels, one of the following support offers may be selected:

- **HP Support Plus - 4yr or 5yr**
- **HP Support Plus 24 - 3yr, 4yr or 5yr**
 - For a higher return on your server and storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates.
- **HP Proactive 24 Service - 3yr, 4yr or 5yr**
 - Provides improved stability, availability and operational effectiveness with an integrated hardware and software support service that combines industry-leading reactive technical assistance with proactive account services, giving your IT manage support from a team of service specialists.
- **HP Critical Service - 3yr, 4yr or 5yr**
 - Provides comprehensive proactive and reactive support designed for businesses that run essential mission-critical applications where downtime is not an option.
- **HP Proactive Select - 3yr, 4yr, or 5yr**
 - Provides an assigned account support manager focused on technical and operational improvements specific to your business environment and proactive service credits that can be redeemed for the service activities of your choice. In addition, you can select HP Priority Connect as an HP Proactive Select menu option to gain priority incident-based access to expert reactive support from the HP Global Mission Critical Solution Center.

Step 3: Choose Additional Options

NOTE: For additional options, please refer to the "Additional Options" section below.

NOTE: Please see the HP ProLiant DL360 G7 QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/13242_div/13242_div.html (Worldwide)

Power cords

NOTE: All models ship with a high voltage server to PDU power cord.

NOTE: HP ProLiant DL servers do not ship standard with NEMA power cords that allow connection to 110V US wall outlets in home or office. HP ProLiant DL servers are primarily connected to PDUs in data center racks so they ship standard with only a PDU power cords (416151-B21). If a user wishes to power a HP ProLiant DL server using a standard wall receptacle (NEMA-15), the NEMA power cord must be ordered separately. Nema 5-15P to IEC320-C13 (PN AF556A).



Power Specifications

Power	Input requirements - single-phase model	Rated input frequency	50 to 60 Hz	
		460W PSU	Rated input voltage	100 240 VAC
			Rated input current	4.5 Amps at 120 VAC 2.2 Amps at 240 VAC
		Maximum BTU Rating	1773 BTU/hr at 120 VAC	
			1715 BTU/hr at 240 VAC	
	Output specifications (per power supply)	Rated Steady-State Power	460 W at 100 VAC	
			460 W at 200 VAC	
		Maximum Peak Power	460 W at 100 VAC 460 W at 200 VAC	
	Acoustic noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). Text ok, numbers are from DL360, OK to use even though config differs from ours?		
		Idle		
LWAd		4.9 B Average Bystander		
LpAm		33 dBA		
Operating				
LWAd		5.4 B Average Bystander		
LpAm	38 dBA			

NOTE: To review maximum system power ratings for facilities planning purposes use the HP Power Advisor at: <http://www.hp.com/go/hppoweradvisor>.



Technical Specifications

HP Business Decision Appliance	Dimensions	Height	1.70 in (4.32 cm)
		Width	16.78 in (42.62 cm)
		Depth	27.25 in (69.22 cm)
	Weight (approximate)	Maximum	39.5 lb (17.92 kg)
		Temperature range	Operating
	Non-Operating		-40° to 158° F (-40° to 70° C)
	Relative humidity	Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
		Non-Operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

NOTE: Operating temperature has an altitude derating of 1.8° F (1° C) per 1,000 ft (304.8 m). No direct sunlight. Upper operating limit is 10,000 ft (3,048 m) or 70Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9,144 m) or 30.3 KPa/4.4 psia.

Environmental-friendly products and approach	End-of-life management and recycling	<p>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.</p> <p>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.</p>
--	--------------------------------------	--

© Copyright 2011 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice.

Microsoft and Windows are US registered trademarks of Microsoft Corporation.

Intel, the Intel logo, Xeon and Xeon Inside are trademarks of Intel Corporation in the U.S. and other countries.

AMD Opteron™ is a US registered trademark of AMD Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

