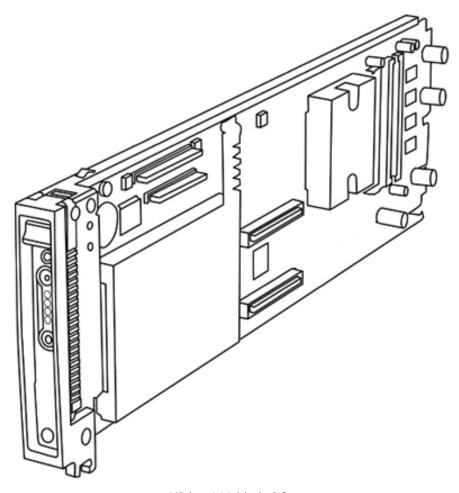
Overview



HP bc1000 blade PC

At a Glance

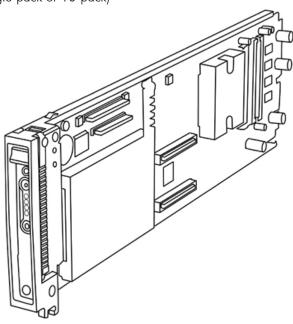
- 1.0-GHz Transmeta Efficeon TM8000
- 40-GB Ultra ATA/100 5400 rpm hard drive
- 512-MB DDR SDRAM PC2700 (333-MHz) expandable to 1024 MB (2 SODIMM slots) (NOTE: 32 MB of system RAM is reserved for processor usage.)
- Two Broadcom 5705F 10/100 Integrated Network Controllers. NIC 1 is compliant with PXE (Pre-boot execution Environment)
- Connector for graphics diagnostics card
- Blade PCs protected by HP Services, including a limited three-year parts warranty with optional service uplifts available

Overview

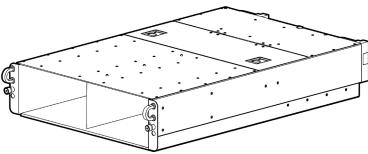
Configuration Steps

For a complete configuration of the HP bc1000 blade PC system, you need:

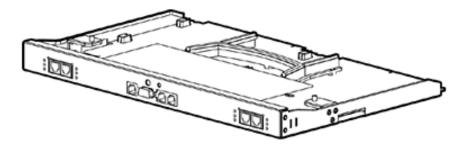
1. HP bc1000 blade PC (sold in a single-pack or 10-pack)



2. HP e-Class Blade PC Enclosure (each can hold up to 20 blade PCs). The enclosure comes bundled with 20 licenses for the ProLiant Essentials Rapid Deployment Pack.



3. C-GbE Interconnect Switch (with 4 10/100/1000T Gigabit Ethernet RJ45 uplinks for up to 40-to-1 network cable reduction).





Standard Features

Н	Р	hc1	000	hl	ade	PC
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Processor One Transmeta Efficeon TM8000 1.0-GHz processor, integrated North Bridge with 400-MHz Hyper

Transport South Bridge interface

Cache Memory 1024K L2

Chipset ALi M1563M South Bridge

NOTE: For more information regarding Acer Labs Inc, please see the following URL:

http://www.ali.com.tw/.

Memory Standard 512-MB DDR SDRAM PC2700 (333-MHz) (1x512 MB SODIMM)

(NOTE: 32 MB of system RAM is reserved for processor usage.)

Maximum 1024 MB (2 SODIMM slots total)

Network Controller Two 5705F 10/100 Integrated Network Controllers. NIC 1 is compliant with PXE

Internal Storage One 40-GB Ultra ATA/100 5400 rpm hard drive

Industry Standard ACPI 1.0b; ANSI C63.4 - 1992; C.I.S.P.R. Pub 22; CFR 47, Part 15; EN 55022; EN 55024; Compliance EN 60950: 2000; ICES-003; IEC 61000-4, Section 2-6, 8, 11; IEC 730-1; IEC 801, Part 2;

IPC-A-610; PC2700; PCI 2.3; PXE 2.1; SPD 1.2B; UL 94; UL 796; USB 1.1

Manageability HP Systems Insight Manager

ROM Based Setup Utility (RBSU) Automatic System Recovery (ASR) System Software Manager (SSM)

DOS-based replicated setup utility (REPSET)

Unit ID LED

High Availability Robust boot block recovery ROM

F5 auto roll over to new blade Dual network communication paths

Security Administrator's password

OS Support Microsoft® Windows® XP Pro with Service Pack 1a





Standard Features

HP e-Class Blade PC Enclosure (sold separately)

Rack Capability

Mounts in HP 10000 and 9000 series, HP System-E, as well as third-party, and Telco racks. Rack mounting hardware for HP and third-party racks ships standard with each blade enclosure. Telco rack-mounting hardware is a separately available option kit.

Rack Airflow Requirements

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted blade PCs. The HP 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with blade PCs 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 rack includes closing front and rear doors, you must allow 5,350 square cm (830 square inches) 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 7 cm (2.75 inches).

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 results in improper cooling that can lead to thermal damage.

NOTE: Please consult the Setup & Installation Guide for the blade PC for additional details.

Enclosure includes

3U high rack-mountable chassis with 20 blade PC bays

Rack mounting hardware for HP, Compaq-branded and third-party racks

Rear bay for Interconnect Switch for network cable management

Two (2) Diagnostic Adapters (see features following) for connecting keyboard, video, mouse and other devices locally to individual blade PCs

ProLiant Essentials Foundation Pack licenses for 20 Blade PCs (see features following), includes the HP Systems Insight Manager and ProLiant Essentials Rapid Deployment Pack CD

Four hot-plug fans

Dual hot-plug power supplies (600 watts each), power cords

Blade PC blanks (to fill 19 of the 20 blade PC bays)

Null-modem cable for serial connection to the Integrated Administrator serial "Console" connector

HP Documentation CD

Diagnostic Adapter Interfaces

NOTE: Two Diagnostic Adapters are included with every enclosure.

Blade PC LEDs (6) PS/2 Mouse PS/2 Keyboard

VGA monitor (functional only when graphics diagnostics card installed)

Serial RS-232 port USB 1.1 ports (2)



Standard Features

ProLiant Essentials HP Systems Insight

Systems Insight Manager helps maximize system uptime and performance Foundation Pack Software Manager

and reduces the cost of maintaining the IT infrastructure by providing proactive notification of problems before those problems result in costly downtime and reduced productivity. Insight Manager is easy to set up and

provides rapid access to inventory information.

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

ProLiant Essentials Rapid Deployment Pack

An automated solution for deployment and provisioning, enabling companies to guickly and easily adapt to changing business demands. NOTE: For more information regarding ProLiant Essentials Software, please

see the following URL: http://www.hp.com/servers/proliantessentials.

Interconnect Switch Management System and **Utilities**

Full featured web-based interface, menu-driven console interface, SNMPbased scripting utility and example scripts, SNMP and RMON MIBs, and

TFTP utilities for management of interconnect switch.

C-GbE Interconnect Switch Features (sold separately)

- Provides up to a 40-to-1 reduction in network cables for each blade enclosure using a pair of non-blocking layer 2 switch modules
- Four RJ-45 10/100/1000T Gigabit Ethernet uplinks
- Forty 10/100T Ethernet ports dedicated to blade-to-interconnect switch network communications
- Communicate with all 40 blade PC network controllers through any one uplink connector and the management connector
- Includes Integrated Administrator module (see features following)
- Spanning tree protocol for loop-free path redundancy
- Browser, scriptable CLI, and console-based interfaces for local and remote interconnect switch management
- Manage entire interconnect switch through the Integrated Administrator connectors or any uplink connector
- Telnet, RMON and SNMP support; SNMP-based scripting utility with example scripts
- IGMP (internet group management protocol) multicasting and quality of service (QoS) packet prioritization
- TFTP support for rapid deployment of multiple interconnect switches and to provide backup and restore capabilities
- Industry-standard design compatible with industry-standard network components from leading network manufacturers
- Fully pre-configured for rapid deployment and immediate operation in HP e-Class Blade PC Enclosure

For more information on the C-GbE Interconnect Switch, please visit the Web site at: http://h18000.www1.hp.com/products/servers/proliant-bl/e-class/interconnect-switch.html.



Standard Features

HP Integrated Administrator Features

- Out-of-band local console and remote network access to the blade enclosure and all 20 blade PCs via (one) RJ-45 10/100BaseT Fast Ethernet and (one) RS-232 management connectors
- Provides local and remote access to the C-GbE Interconnect Switch command console
- Remotely power on/off/reboot blade PCs and enclosures
- Remotely toggle on/off unit identification (UID) LEDs of blade PCs and enclosures
- Monitors and controls the enclosure fans, temperature sensors, power supplies, interconnect switch and blade PC status
- Connect to each blade PC's serial text console for enabling full control over blade PC's Power-On Self Test (POST) and boot
 process, including the ROM-Based Setup Utility (RBSU).
- User administration for up to 25 users. Blade PC bay privileges can be set on a per-user basis
- Virtual NMI button generates non-maskable interrupt for crash debug and analysis
- More than 100 scriptable commands enable automated management
- Selective enabling of all protocols, such as Telnet
- Logging of operating system console, blade PC and enclosure hardware events, user actions and invalid login attempts
- Administrator notification that a blade is warm
- Enclosure controller blade shutdown (graceful Windows shutdown) if blade overheats
- Emergency blade shutdown in the event of a critical temperature fault
- Enclosure Link (2) connectors reserved for future use.

CAUTION: The enclosure link (RJ-45) connectors on the interconnect tray are not to be used. Connecting an external device to these enclosure link (RJ-45) connecters may damage your external device.

For more information on the Integrated Administrator, please visit the Web site at:

http://h18000.www1.hp.com/products/servers/proliant-bl/e-class/integrated-admin.html.

Service and Support

HP Services provides a wide range of service offerings, including a three-year, limited parts warranty on the HP bc1000 blade PC.

CAUTION: Do not ship the blade PCs and enclosure while inside the rack without first installing the e-Class Enclosure Shipping Bracket (part number PH555A). Failure to use the shipping bracket may cause damage to the blade PC and/or enclosure, thereby voiding the warranty.

The HP e-Class Blade PC Enclosure has a three-year, limited warranty on parts, labor and on-site support.

Warranties are fully supported by a network of resellers and service providers in over 160 countries. HP warranty assistance is available 7x24, toll free in the United States and Canada. Other additional support services may be covered under warranty or available for an additional fee.

A full range of HP Care Pack packaged hardware and software services:

- Add labor or on-site service for the blade PC
- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

NOTE: For more information, customer/resellers can contact http://www.hp.com/services/carepack. NOTE: Certain restrictions and exclusions apply. Consult the Customer Support Center at 1-800-567-1616 for details.



Models

bc1000 blade PC DS658A (1 pack) Processor 1.0-GHz Transmeta Efficeon TM8000

Cache Memory 1024K L2

Memory 512-MB DDR SDRAM PC2700 (333-MHz)
Network Controller Two Broadcom 5705F 10/100 Integrated NICs

Hard Drive 40-GB Ultra ATA/100 5400 rpm

Form Factor Plugs vertically into HP e-Class Blade PC Enclosure

bc1000 blade PC DS659A (10 pack) Processor 1.0-GHz Transmeta Efficeon TM8000

Cache Memory 1024K L2

Memory 512-MB DDR SDRAM PC2700 (333-MHz)

Network Controller Two Broadcom 5705F 10/100 Integrated NICs

Hard Drive 40-GB Ultra ATA/100 5400 rpm

Form Factor Plugs vertically into HP e-Class Blade PC Enclosure



Options

Enclosure and Switch	HP e-Class Blade PC Enclosure (includes 20 licenses for ProLiant Essentials Rapid Deployment Pack at 50% of the standard per-node license list price) Enclosure Shipping Bracket Kit NOTE: When shipping an enclosure in a rack, shipping brackets must be installed to the rack.	DW366A	
	C-GbE Interconnect Switch (includes Integrated Administrator module)	DW367A	
Memory	512-MB DDR SDRAM PC2700 (333-MHz) Option Kit (1 x 512 MB)	PA715A	
Miscellaneous	PS/2 Mouse	DD440B	
	PS/2 Keyboard	DT527A	
	TFT5600 Rackmount Keyboard and Monitor	221546-001	
	TFT721OR 17-inch Rackmount Monitor	348373-B21	
	Integrated Keyboard and Drawer	257054-001	
	External USB MultiBay Caddy	DC373A#ABA	
	Third-party Rail Kit for HP Input Devices	287139-B21	
	Telco Rail Kit for HP Input Devices	287138-B21	
	MultiBay 24X CD-ROM	217396-930	
	Graphics Diagnostics Card (5 pack)	DV300C	
UPS and PDU Power Cord Matrix	Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and specifications for UPS and PDU units: ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.		
Uninterruptible Power	HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage	204404-001	
Systems – Rack	HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage	192186-001	
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage	192186-002	
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage NOTE: The UPS R6000 has a hardwired input.	347207-001	
	UPS R12000 XR N+ \times (200-240V) (hardwired) NOTE: The UPS R12000 XR has a hardwired input and output.	207552-B22	



Options		
UPS Options	SNMP Serial Port Card NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	192189-B21
	Six Port Card NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	192185-B21
	High to Low Voltage Transformer (250VA) NOTE: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two NEMA 5-15.	388643-B21
	Extended Runtime Module, R1500 XR NOTE: 2U each, two ERM maximum.	218971-B21
	Extended Runtime Module, R3000 XR NOTE: 2U each, one ERM maximum.	192188-B21
	Extended Runtime Module, R5500 XR NOTE: 3U each, two ERM maximum.	326564-B21
	Extended Runtime Module, R6000 NOTE: 3U each, two ERM maximum.	347224-B21
	Extended Runtime Module, R12000 XR, 4U NOTE: 4U each, two ERM maximum.	217800-B21
	R12000 XR BackPlate Receptacle Kit, (2) L6-30R NOTE: The R12000 XR BackPlate Kit has a hardwired input.	325361-001
	R12000 XR BackPlate Receptacle Kit, (2) IEC-309R NOTE: The R12000 XR BackPlate Kit has a hardwired input.	325361-B21
	SNMP-EN Adapter NOTE: Supports R6000 UPS series only.	347225-B21
	Multi-Server UPS Card NOTE: Supports R6000 UPS series only.	123508-B21
	Scalable UPS Card NOTE: Supports R6000 UPS series only.	123509-B21
Rack-Mountable PDUs – 1U/0U (Up to 12 outlets) NOTE: 0U mounting brackets shipped with the	HP Power Distribution Unit-16A (200 to 240V) NOTE: The 16A PDU also connects to the high volt models of the UPS R3000 XR (need cable PN 340653-001) and the UPS R6000 models. Cable PN 340653-001 required if connecting to UPS R3000 XR (192186-002-High Volt model only).	207590-B21
unit (separate option kit for 1U mounting).	HP Power Distribution Unit-40A (200 to 240V) NOTE: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options, including cables: http://h18000.www1.hp.com/products/quickspecs/10838_na/10838_na.HTML	207590-B23



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Options					
Modular PDUs 1U/0U (Up to 32 outlets)	Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) NOTE: This model has a detachable input power cord and is adaptable to country specific requirements. The 16A PDU also connects to the high volt models of the UPS R3000 XR and R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002-High Volt model only).				
	Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC)	252663-D72			
	Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC)	252663-D71			
	Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) NOTE: This mPDU (252663-B21), 40A model has a hardwired input.	252663-B21			
	NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords: http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML				
PDU Options	Third Party PDU Mounting Kit NOTE: This kit allows you to mount the Modular PDUs in racks other than the 9000/10000 Series racks (any racks using the standard 19" rail). For more details please refer the Modular PDU QuickSpecs.	310777-B21			
Enterprise Configurator	Please see the CO for configuration assistance at: http://www.hp.com/products/configu	rator.			
HP Rack 10000 Series	S10614 (14U) Rack Cabinet – Shock Pallet	292302-B22			
(Graphite Metallic)	HP Rack 10647 (47U) – Pallet	245160-B21			
	HP Rack 10647 (47U) – Crated	245160-B23			
	HP Rack 10642 (42U) – Pallet	245161-B21			
	HP Rack 10642 (42U) – Shock Pallet	245161-B22			
	HP Rack 10642 (42U) – Crated	245161-B23			
	HP Rack 10636 (36U) – Pallet	245162-B21			
	HP Rack 10636 (36U) – Shock Pallet	245162-B22			
	HP Rack 10636 (36U) – Crated	245162-B23			
	HP Rack 10622 (22U) — Pallet	245163-B21			
	HP Rack 10622 (22U) – Shock Pallet	245163-B22			
	HP Rack 10622 (22U) – Crated	245163-B23			
	HP Rack 10842 (42U) – 800 mm wide – Pallet	257415-B21			
	HP Rack 10842 (42U) – Crated	257415-B22			
	NOTE: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks NOTE: Not all HP equipment is qualified to be shipped in the Rack 10000 series. NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color: http://h18000.www1.hp.com/products/quickspecs/10995 na/10995 na.HTML				
	For additional information regarding Rack Cabinets, please see the following LIRI:				



For additional information regarding Rack Cabinets, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/racks/index.html.

Options

Rack Options for HP Rac 10000 Series	k Rack Blanking Panels – Graphite (Multi) NOTE: Contains one each of 1U, 2U, 4U and 8U.	253214-B20
Today Garias	Rack Blanking Panels – Graphite (1U) NOTE: The Rack Blanking Panels Kit contains 10 each of (1U).	253214-B2
	Rack Blanking Panels – Graphite (2U) NOTE: The Rack Blanking Panels Kit contains 10 each of (2U).	253214-B22
	Rack Blanking Panels – Graphite (3U) NOTE: The Rack Blanking Panels Kit contains 10 each of (3U).	253214-B23
	Rack Blanking Panels – Graphite (4U) NOTE: The Rack Blanking Panels Kit contains 10 each of (4U).	253214-B24
	Rack Blanking Panels – Graphite (5U) NOTE: The Rack Blanking Panels Kit contains 10 each of (5U).	253214-B2
	600mm Stabilizer Kit – Graphite	246107-B2
	Baying Kit for Rack 10000 series (Carbon)	248929-B2
	42U Side Panel – Graphite Metallic	246099-B2
	110V Fan Kit (Graphite) NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 5-15P.	257413-B2
	220V Fan Kit (Graphite) NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.	257414-B2
	36U Side Panel – Graphite Metallic	246102-B2
	47U Side Panel – Graphite Metallic	255486-B2
	9000/10000 Series Offset Baying Kit (42U) NOTE: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	248931-B2
Cable Management	FC Cable Routing Spool – box of 12	293357-B2
	Rail-to-Rail FC Cable Routing	293358-B2
	Side Rail FC Routing – box of 6	293359-B2
	Compaq Networking Cable Management Kit	292407-B2
	Cable Management D-Rings Kit	168233-B2
Rack Options for Rack	Monitor Utility Shelf	303606-B2
10000 Series	Ballast Option Kit	120672-B2
	100kg Sliding Shelf	234672-B2
	Rack Rail Adapter Kit (25" depth)	120675-B2
	9000/10000 Grounding Kit	260457-B2
	100-kg Shelf Kit NOTE: This 100Kg Shelf Kit (PN 234672-B21) supports the Rack 10000 and 9000 series only.	234672-B2



HP bc1000 blade PC

266076-B21

293119-B21

QuickSpecs

Options

Rack Options for HP, Third Party and Telco racks Telco rack-mounting hardware kit for HP e-Class Blade PC Enclosure

Enclosure Shipping Bracket Kit

NOTE: When shipping an enclosure in a rack shipping brackets must be installed to the rack.

NOTE: For more information on rack and rack options, please visit the following url: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html.



Memory

HP bc1000 blade PC Standard Memory

512-MB 333-MHz DDR SDRAM (1x512 MB SODIMM) installed. (NOTE: 32 MB of system RAM is reserved for processor usage.)

Standard Memory Plus Optional Memory

Up to 1024 MB of DDR SDRAM is available with the installation of optional DDR SDRAM memory expansion kits (sold separately).

·	Memory	5	Slot		
		1	2		
Standard	512 MB	Empty	512 MB		
Maximum	1024 MB	512 MB	512 MB		





Technical Specifications

HP bc1000 blade PC	Dimensions	Height	4.7 in (11.94 cm)
		Width	0.8 in (2.03 cm)
		Depth	15.5 in (39.37 cm)
	Weight	Maximum	2.2 lb (1.0 kg)
	Temperature ¹	Operating	50° to 95° F (10° to 35° C)
		Non-operating shipping	-40° to 140° F (-40° to 60°

Non-operating shipping -40° to 140° F (-40° to 60° C) Non-operating storage -4° to 140° F (-20° to 60° C)

Relative humidity¹ Operating 10% to 90% (noncondensing) Non-operating shipping 10% to 90% Non-operating storage 10% to 95% LEDs (Top to bottom) Unit identification Off = off

Steady blue = blade identified

Blinking blue = being accessed remotely

Health Off = off

Green = health good

Amber = degraded or power up prohibited by

the Integrated Administrator
Blinking or steady red = critical

NIC 1 Off = off

Green = linked to network

Blinking green = Activity on network

NIC 2 Off = off

Green = linked to network

Blinking green = activity on network

Drive activity Off = No drive activity

Blinking green = drive activity

Power Off = no AC power to blade or enclosure

Amber = Enclosure on and in good health

Green = blade power on

NOTE 1: Operating temperature has an altitude derating of 34° F (1° C) per 1,000 ft (304.8 m). No direct sunlight. Storage maximum humidity of 95% is based on a maximum temperature of 112° F (45° C). Minimum pressure for storage is 70 KPa.

40-GB Ultra ATA/100 Hard Drive Capacity 40 GB

InterfaceUltra ATA 100Transfer rate synchronous100 MB/s

(maximum)

Seek time (typical reads, Single track 1.5 ms including settling)

Average 12 ms

Maximum 22 ms

Rotational speed 5400 rpm



Technical Specifications

Broadcom 5705F 10/100 Network interface 10Base-T/100Base-TX

Integrated NIC

Compatibility IEEE 802.3/802.3u compliant

Data transfer method 32-bit bus-master PCI

Features NIC 1 WOL enabled and PXE compliant

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

Connector Mates into enclosure center wall assembly

Cable support 10Base-T Categories 3, 5, or 6 UTP; up to 328 ft (100 m)

100Base-TX Category 5 or 6 UTP; up to 328 ft (100 m)

Enclosure Dimensions Height (3U) 5.25 in (13.34 cm)

 Width
 19 in (48.26 cm)

 Depth
 27 in (68.58 cm)

 No blade PCs
 59 lb (26.76 kg)

Weight (with interconnectNo blade PCs59 lb (26.76 kg)tray)20 blade PCs103 lb (46.7 kg)

Rated input (autosensing) Voltage Minimum: 90 VAC
Maximum: 264 VAC

Nominal: 100 to 120 VAC or 200 to 240 VAC

 Frequency
 47 to 63 Hz

 Current
 11.7 A at 90 VAC

8.5 A at 120 VAC

4.3 A at 240 VAC

 Power
 1000 W

 BTUs
 Per hour
 3416

Temperature Operating 50° to 95° F (10° to 35° C)

Shipping, 72 hours -40° to 140° F (-40° to 60° C)

Relative humidity Operating 10% to 90% (noncondensing) Non-operating 10% to 95%

Management Enclosure self recovery

Health logs

Redundant power supply utility Automatic System Recovery (ASR)

High availability Redundant hot-plug power supplies

Redundant hot-plug fans

NOTE 1: Operating temperature has an altitude derating of 34° F (1° C) per 1,000 ft (304.8 m). No direct sunlight. Storage maximum humidity of 95% is based on a maximum temperature of 112° F (45° C). Minimum pressure for storage is 70 KPa.



Technical Specifications

Enclosure Hot-Plug Power Dimensions	Height	3.579 in (9.14 cm)
Supply	Depth	10.24 in (28.45 cm)
	Width	4.47 in (11.43 cm)

Weight 6.5 lb (2.95 kg)

Rated input Voltage (autosensing) 100 to 127 VAC (200 to 240 VAC)

> Frequency 47 to 63 Hz

Current 8.5 A at 120 VAC (4.3 A at 240 VAC)

Power 1000 W Maximum peak power 1167 W

Rated output Voltage/current $5.01 \text{ V} - 0.5 \text{ A} \sim 34 \text{ A}$

> $3.33 \text{ V} - 0.5 \text{ A} \sim 36 \text{ A}$ $12.1 \text{ V} - 0.5 \text{ A} \sim 38 \text{ A}$ 5 Vaux - $0.2 A \sim 8 A$

Power RMS 600 W

700 W for 2 minutes Maximum peak power

Temperature¹ 5° to 55° F (10° to 35° C) Operating

> Non-operating, shipping -40° to 85° F (-40° to 60° C)

Relative humidity¹ 10% to 90% Operating (noncondensing) Non-operating 10% to 95%

Dieletric voltage Input to output 2000 VAC minimum withstand Input to ground 1500 VAC minimum

NOTE 1: Operating temperature has an altitude derating of 34° F (1° C) per 1,000 ft (304.8 m). No direct sunlight. Storage maximum humidity of 95% is based on a maximum temperature of 112° F (45° C). Minimum pressure for storage is 70 KPa.

C-GbE Interconnect	General	Two 24-port Managed Layer 2 Ethernet switches for network cable
Switch		reduction; fully pre-configured for immediate operation

reduction; fully pre-configured for immediate operation

Performance 4.0 Gbps Switching bandwidth

12 million pps aggregate throughput (64-byte packets)

Full-wire speed for all connections

Forwarding mode Store and forward

MAC addresses 16,382; MAC address based filtering and MAC address packet priority

configuring

Memory 64 MB Main

12 MB Flash

32 MB Packet Buffer



Technical Specifications

Ports Four RJ-45 10/100/1000 T/TX/T Gigabit Ethernet uplink ports for customer

use

Forty 10/100 T/TX fast Ethernet downlink ports dedicated to blade PC to

interconnect switch network connections

Two 10/100 T/TX Fast Ethernet ports dedicated to inter-switch module

communications

One RS-232 DB-9 port (console connector for Integrated Administrator)

One 10/100 T/TX Fast Ethernet port (Network management connector for

Integrated Administrator)

Auto-negotiation and auto-sensing with full-duplex

Management Web-based interface with graphical user interface

Console menu driven Interface via local RS-232 and Telnet

Scriptable command line interface (CLI)

SNMP v1 (RFC 1157) with scripting tool and example scripts

RMON v1 (RFC 1757) groups 1, 2, 3, and 9

Telnet (RFC 854)

MIB-II (RFC 1213), Bridge MIB (RFC 1493), Interface MIB (RFC 2233), 801.1Q MIB (RFC 2684), RMON1 MIB (RFC 1757) groups 1, 2, 3, and 9,

Ethernet MIB (RFC1643) and HP-specific switch MIBs

XML human read/write configuration file

TFTP client (RFC 783) for backup and remote download of configuration

and history log files

IGMP (Internet Group Management Protocol) multicasting

Uplink port speed and link activity LEDs Simple network time protocol (SNTP)

Broadcast, multicast, and DA-unknown packet storm control

BootP and DHCP client support

Port mirroring

HP Interconnect Switch Management System and Utilities

High availability Dual network communication paths using redundant, non-blocking layer 2

switch modules with redundant inter-module communication links Two redundant uplink ports per each interconnect switch module

Spanning tree protocol for loop-free path redundancy

Security Multilevel user names and passwords with configurable time out period

setting, IP address restriction

IEEE standards compliance

IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Ethernet

IEEE 802.3ab 1000Base-T Ethernet
IEEE 802.1D Spanning Tree Protocol

IEEE 802.1p Quality of Service (QoS) Packet Prioritization

IEEE 802.3x Flow Control

Form factor Removable interconnect tray that plugs into the rear of the server blade

enclosure





Technical Specifications

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-T (full-duplex, 2000 Mb/s

uplink ports only)

Cable support 10Base-T Categories 3, 5, or 6 UTP; up to 328 ft (100 m)

100Base-TX Category 5 or 6 UTP; up to 328 ft (100 m) 1000Base-T (uplink ports Category 5 or 6 UTP; up to 328 ft (100 m)

only)

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