COMPAQ

EK–DS10S–UR. C01

ALPHASERVER DS10
ALPHASTATION DS10
USER REFERENCE CARD

This document is intended as a quick reference for the user. Additional information can be found in the *AlphaServer DS10 & DS10L / AlphaStation DS10 Console Reference* guide, EK-DS10S-CR.

Overview

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⚠ *WARNING: To prevent injury, access is limited to persons who have appropriate technical training and experience. Such persons are expected to understand the hazards of working within this equipment and take measures to minimize danger to themselves or others.*

CPU modules and memory modules have parts that operate at high temperatures. Wait 2 minutes after power is removed before touching any module.

Wear an antistatic wrist strap when working on this system.

⚠ *To reduce the risk of electrical shock or damage to the equipment: Do not disable the power cord grounding plug. The grounding plug is an important safety feature. Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times. Disconnect power by unplugging the power cord from the electrical outlet or the workstation.*

Environmental Specifications

Storage temperature range	–40º C to 66º C (–40º F to 151º F)
Operating temperature range	10º C to 40º C (50º F to 104º F)
Max. rate of change	11º C (20º F) per hour
Storage humidity range (noncondensing)	10% to 90% relative humidity; maximum wet bulb 65º C (149º F)
Operating humidity range (noncondensing)	10% to 90% relative humidity (without removable media) or 20% to 80% relative humidity (with removable media); maximum wet bulb 2º C (36º F)
Max. altitude	Nonoperating–4867 m (16,000 ft.); Operating–2400 m (8,000 ft.)
Nonoperating shock	30 G, 25 ms halfsine

Mechanical Specifications

Leave ventilation room at the front and rear of the system.
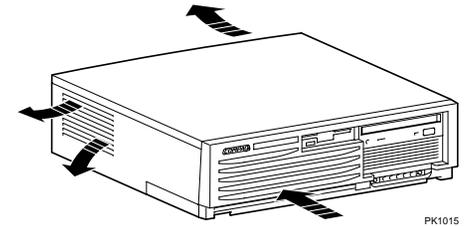
PK1015

|	
Height	13 cm (5 in.)
Width	43 cm (17 in.)
Depth	46 cm (18 in.)
Weight	14.5 kg (32 lb)

Electrical Specifications

- Check your power supply setting (some models).
- Secure the power cord by turning the safety latch clockwise over the power cord. Secure the latch by tightening it with a screwdriver.

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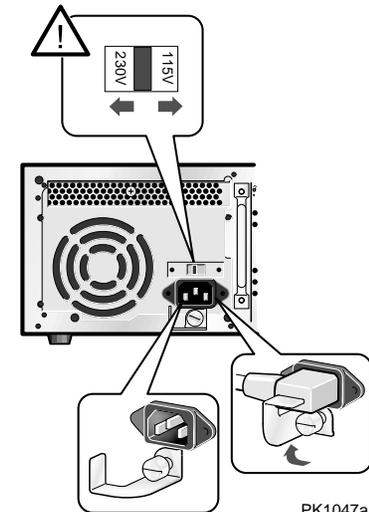
Front Buttons and LEDs

The LEDs are located in the lower right corner on the front of the system.
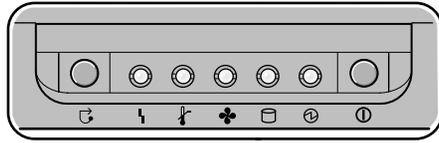
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Symbol	Function
↪	**Halt** button. Suspends the operating system and returns control to the SRM console.
⌐	**Environmental** amber LED. On indicates Temperature or Fan LEDs are on. Flashes when operating system invokes it as an alert.
🌡	**Temperature** amber LED. On indicates internal temperature exceeds operating conditions. The system shuts down 30 seconds after this LED lights.
♣	**Fan** amber LED. On indicates at least one of the three fans in the system has failed. The system shuts down 30 seconds after this LED lights.
⊡	**Disk Activity** green LED. Flashes when internal system disks are accessed.
⊘	**Power Present** green LED. On when power is present in the system.
⏻	**Power** button. Push in to start the system and connect power. Push again to remove power and stop the system.

Ethernet LEDs

The Ethernet LEDs are on the back of the system, lower right corner.

Link
Speed/Activity
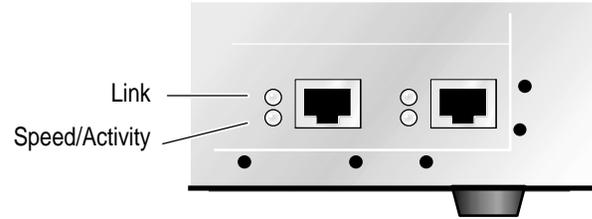
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| LED	Meaning
Link	Steady green indicates Ethernet connection
Speed	Green for Ethernet speed of 100
	Amber for Ethernet speed of 10
Activity	LED blinks with Ethernet activity

Beep Codes

The speaker in the front of the system reports errors using a series of beeps.

Beeps	Meaning
1-2-3	Valid firmware image not found
4	Valid ROM header not found
6	Memory error (or bad checksum) detected
7	DIMMs in a memory bank do not match

PCI Slots

The SRM console command **show config** displays PCI information.

PCI Slot 4 — 64 Bit
PCI Slot 3 — 64 Bit
PCI Slot 2 — 64 Bit
PCI Slot 1 — 32 Bit
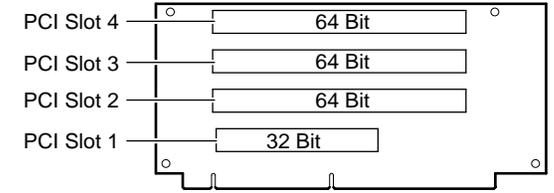
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Memory Configuration

The SRM console command **show memory** displays the memory configuration.

**DIMM BANKS**

1
0
1
0

DIMM CONFIGURATION RULES:
- Always fill at least one bank (0 or 1).
- Use the same two DIMMs within a bank (size and vendor).

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Front Access Drives (Some Models)

Front access disk drives are optional on some models. Follow these steps to remove a drive or a spacer panel from a front access bay.

1. Ensure that the drive to be removed has been properly dismounted (via the operating system) before extracting it from the system.

2. Push the tab on the left of the drive ❶ to disengage the extractor lever.

3. Grasp the lever ❷ in the middle and pull it forward; this will cause it to disengage the drive from the flange on the right-hand side of the lever.

4. Pull the drive forward out of the bay.

5. If you need to remove a blank spacer panel, push the tabs ❸ toward each other and pull the spacer out.

6. To replace the drive, slide it back into the bay, secure the latches, and remount it.
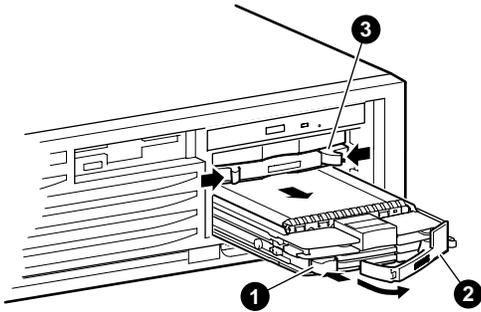
MR0020

SCSI jumpers for front access drives are located on the back of the front access drive cage. Default for the drive located in the bottom slot is 0; default for the upper drive is 1. See the label on the back of the cage to change the jumpers if necessary.

SRM Console Commands

alphabios	Loads and starts the AlphaBIOS console.
boot	Loads and starts the operating system.
clear *envar*	Resets an environment variable to its default value.
clear password	Sets the password to zero.
continue	Resumes program execution.
crash	Forces a crash dump at the operating system level.
deposit	Writes data to the specified address.
edit	Invokes the console line editor on a RAM file or on the nvram file (power-up script).
examine	Displays the contents of a memory location, register, or device.
help	Displays information about the specified console command.
initialize	Resets the system to a known state.
lfu	Runs the Loadable Firmware Update Utility.
login	Turns off secure mode, enabling access to all SRM console commands during the current session.
more	Displays a file one screen at a time.

SRM Console Commands (continued)

prcache	Utility that initializes and displays status of the optional PCI NVRAM device.
set *envar*	Sets or modifies the value of an environment variable.
set host	Connects to an MSCP DUP server on a DSSI device.
set password	Sets the console password for the first time or changes an existing password.
set secure	Enables secure mode without requiring a restart of the console.
show *envar*	Displays the state of the specified environment variable.
show config	Displays the configuration at the last system initialization.
show cpu	Displays the state of each processor in the system.
show device	Displays a list of controllers and their devices in the system.
show memory	Displays memory module information.
show pal	Displays the version of the privileged architecture library code (PALcode).
show power	Displays information about the power supplies, system fans, CPU fans, and temperature.
show version	Displays the version of the console program.
stop	Halts the specified processor. (Same as **halt**.)
test	Runs firmware diagnostics for the system.

Remote Management Console (RMC) Commands

alert_clr	Clears alert flag, stopping dial-out alert cycle.
alert_dis	Disables the dial-out alert function.
alert_ena	Enables the dial-out alert function.
disable	Disables remote access to the modem port.
enable	Enables remote access to the modem port.
halt	Halts the server.
haltin	Causes a halt assertion.
haltout	Terminates a halt assertion created with **haltin**.
hangup	Terminates the modem connection.
help or **?**	Displays the list of commands.
poweroff	Turns off power.
poweron	Turns on power.
quit	Exits console mode and returns to system console port.
reset	Resets the server. Emulates pressing the Reset button.
setesc	Changes the escape sequence for invoking command mode.
setpass	Changes the modem access password.
status	Displays system status and sensors.

Acoustics

Declared values per ISO 9296 and ISO 7779, listed for the server/workstation.

DS10 with 1 HDD	L_{WAd}, B	L_{pAm}, dBA (operator position)	L_{pAm}, dBA (bystander positions)
Idle	5.7	48	41
Operating	6.0	52	45

Current values for specific configurations are available from Compaq representatives. 1 B = 10 dBA.

Schallemissionswerte — Vorläufige Werteangaben nach ISO 9296 und ISO 7779/DIN EN27779:

DS10 mit 1 HDD	Schalleistungspegel		Schalldruckpegel	
	L_{WAd}, B		L_{pAm}, dBA (Bediener-position)	L_{pAm}, dBA (Zuschauer-positionen)
Leerlauf	5.7		48	41
Betrieb	6.0		52	45

Aktuelle Werte für spezielle Ausrüstungsstufen sind über die Compaq Computer Vertretungen erhältelich. 1 B = 10 dBA.

For More Information

- *AlphaServer DS10 / DS10L and AlphaStation DS10 Console Reference* (EK-DS10S-CR)

- *AlphaServer DS10 Quick Setup* (EK-DS10S-CP)

- Using a Web browser, follow links to the appropriate documentation from the URL:

    http://www.compaq.com/showroom/