HP ProLiant DL120 Generation 5 Server

Installation Sheet

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⚠ Important Safety Information

Before installation, read *Important Safety Information* on the Documentation CD.

قبل التثبيت، اقرأ معلومات هامة حول السلامة على القرص المضغوط Documentation CD.

Před instalací si přečtěte příručku *Důležité bezpečnostní informace* na disku CD.

安装之前，请阅读文档 CD 上的 *重要安全信息*。

安裝前，請閱讀說明文件光碟上的「*重要的安全性資訊*」。

Læs dokumentet Vigtige sikkerhedsoplysninger på dokumentations-cd'en, før produktet installeres.

Lesen Sie vor der Installation die *Sicherheitshinweise* auf der Documentation CD.

Enne installimist vt dokumentatsiooni CD-lt peatükki „*Tähtis ohutusteave*".

Antes de la instalación, lea la sección *Información de seguridad importante* del CD Documentación.

Avant l'installation, lisez les *informations importantes relatives à la sécurité* CD Documentation.

Πριν την εγκατάσταση, διαβάστε *Σημαντικές πληροφορίες ασφαλείας* στο CD Documentation.

לפני ההתקנה, קרא את המידע המסתיחותי הבטיחותי החשוב שב- (תקליטור התיעוד) Documentation CD.

Prije ugradnje, pročitajte *Važne sigurnosne informacije* na dokumentacijskom CD-u.

Prima dell'installazione, leggere sul CD le Informazioni importanti sulla sicurezza.

インストール前に、Documentation CDの『*安全に使用していただくために*』をお読みください。

설치하기 전에 Documentation CD의 주요 안전 수칙을 읽으십시오.

Pirms instalācijas, izlasiet drošības informāciju dokumentācijas CD.

Prieš diegdami perskaitykite *Svarbią saugos informaciją* dokumentacijos CD.

Telepítés előtt olvassa el a dokumentációs CD *Fontos biztonsági tudnivalók* dokumentumát.

Lees de *Belangrijke veiligheidsinformatie* op de documentatie-cd voordat u de installatie uitvoert.

Les "Viktig sikkerhetsinformasjon" på dokumentasjons-CDen før du installerer dette produktet.

Przed instalacją przeczytaj *Ważne informacje dotyczące bezpieczeństwa* na dysku CD Documentation.

Antes da instalação, leia as *Informações Importantes sobre Segurança* no CD da Documentação.

Перед установкой ознакомьтесь с разделом *Указания по технике безопасности* на компакт-диске «Документация».

Pred inštaláciou si prečítajte časť *Dôležité bezpečnostné informácie* na disku Documentation CD.

Pred namestitvijo preberite *Pomembne varnostne informacije* na CD-ju Documentation.

Tärkeisiin turvatietoihin" Documentation CD -levyllä ennen tuotteen asentamista.

Läs dokumentet Viktig säkerhetsinformation på dokumentations-cd:n innan du installerar denna produkt.

Yüklemeden önce, Documentation CD'sindeki *Önemli Güvenlik Bilgileri*'ni okuyun.

Перед установкою прочитайте *Важливі відомості з безпеки* на CD документації.

Configuring the server

1. Connect all peripherals to your ProLiant server.
    o   Keyboard
    o   Mouse
    o   Monitor
2. Determine the server BIOS version.
    a. Power up the server.
    b. Press the **Esc** key at the HP logo screen, and then press the **Pause** key to halt screen movement.
    c. Note the server BIOS version.
    d. Verify the server BIOS version against the latest BIOS version listed for this server on the HP website: **http://www.hp.com**.
    e. If you do not have the latest BIOS, update the BIOS now.
    f. Refer to the *HP ProLiant DL120 Generation 5 Server Maintenance and Service Guid*e available on the HP website: **http://www.hp.com**.

Default boot priority

By default, the server searches for boot devices in the following order:

1. Optical disc drive (DVD-ROM)
2. Removable drive
3. Hard disk drive
4. Embedded NIC

Server configuration guidelines

Read the following items before performing any of the installation procedures described in later sections.

⚠ **WARNING:** Failure to properly turn off the system power before you open the server or before you start removing or installing hardware components may cause serious damage as well as bodily harm.

⚠ **WARNING:** To reduce the risk of personal injury from hot surfaces, allow the chassis and any installed hardware component to cool before touching them.

△ **CAUTION:** Observe the ESD precautions, pre- and post-installation procedures, and proper cabling management described in Chapter 2 of the *HP ProLiant DL120 Generation 5 Server Maintenance and Service Guide* when performing any installation procedure.

Getting additional documentation

Refer to the *HP ProLiant DL120 Generation 5 Server Support CD* for additional information and updates not provided in this installation sheet. You can also access additional information and documentation from the HP website at **http://www.hp.com/**, either by connecting directly or through the Support CD.

Identifying server components

Front panel components
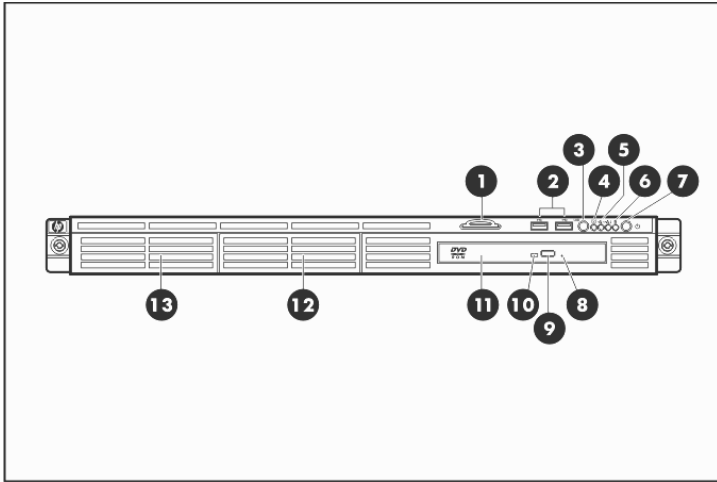
Item	Component	Item	Component
1	Plastic serial No. Pull Tab DL1U	8	Optical disc drive (ODD) manual eject hole
2	Front USB ports	9	ODD eject button
3	Front unit identification (UID) button/LED	10	ODD activity LED
4	System health LED	11	Optical disc drive
5	Embedded NIC activity/link LED	12	Hard Disk Drive 2
6	HDD activity LED	13	Hard Disk Drive 1
7	Power/standby button/LED		

NOTE: The location/availability of items 8 – 10 may vary depending on the model of the installed optical disc drive.

Rear panel components
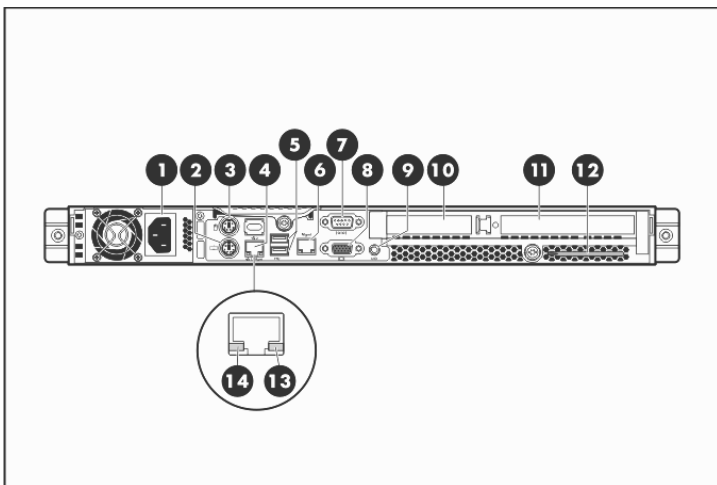
Item	Component	Item	Component
1	PSU cable socket	3	PS/2 mouse port
2	PS/2 keyboard port	4	Embedded NIC port
5	Rear USB ports	10	Expansion slot 2 cover
6	Management NIC (optional)	11	Expansion slot 1 cover
7	Serial port	12	System thumb screw
8	Video port	13	Embedded NIC link LED
9	Rear UID button/LED	14	Embedded NIC activity LED

System board components
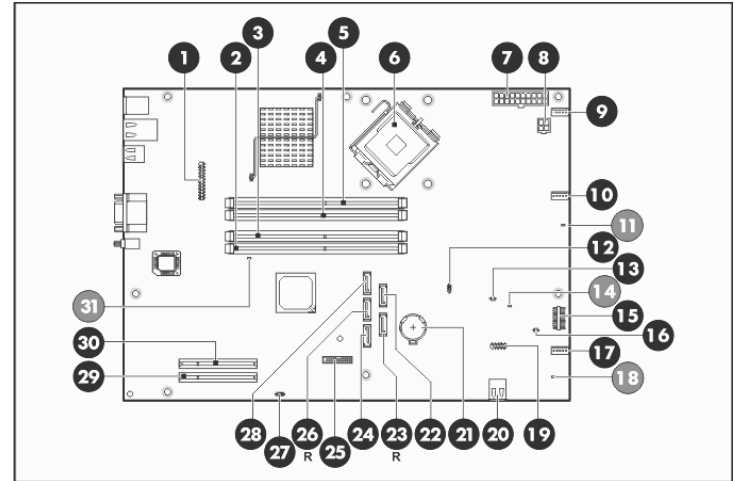
Item	Code	Component
1	CN6	DL120 G5 HP Lights-Out 100c module connector
2	DIMM_CH2_B	Channel 2 1st DDR II DIMM slot
3	DIMM_CH2_D	Channel 2 2nd DDR II DIMM slot
4	DIMM_CH1_A	Channel 1 1st DDR II DIMM slot
5	DIMM_CH1_C	Channel 1 2nd DDR II DIMM slot
6	CPU	Processor
7	PWR_CN	20-pin ATX system board power connector
8	CN4	4-pin ATX processor power connector
9	CPU_FAN1	Processor fan 1 connector
10	CPU_FAN2	Processor fan 2 connector
11	LED1	Processor fan failure LED
12	JP5	BIOS boot block jumper
13	JP13	NMI jumper
14	LED3	System/processor over temperature (OTP) LED
15	CN8	Front panel board connector
16	CN26	SAS LED cable connector
17	SYSFAN	System fan connector
18	LED2	System fan failure LED
19	CN9	Front USB port connector
20	SKT2	Internal USB connector
21	BAT1	System battery
22	HDD2	HDD 2 SATA cable connector

Item	Code	Component
23	HDD4	Reserved SATA HDD cable connector
24	ODD1	ODD SATA cable connector
25	CN14	Trusted Platform Module (TPM) connector
26	HDD3	Reserved SATA HDD cable connector
27	JP7	Clear CMOS jumper
28	HDD1	HDD 1 SATA cable connector
29	Expansion_slot_1	Expansion slot 1 (for riser board)
30	Expansion_slot_2	Expansion slot 2 (for riser board)
31	LED4	DIMM failure LED

Opening the server
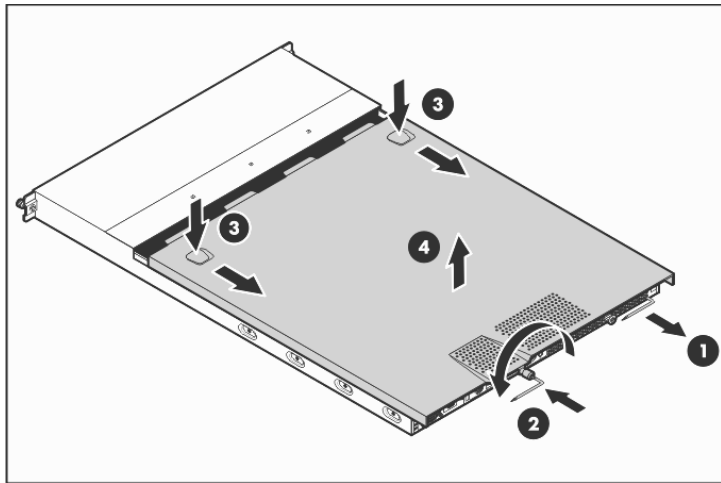
Installing a hard drive

The server has two 3.5″ HDD bays that support non-hot-plug SATA and SAS drives. The basic system comes with a single hard drive. The type and capacity of drives vary based on the server model.
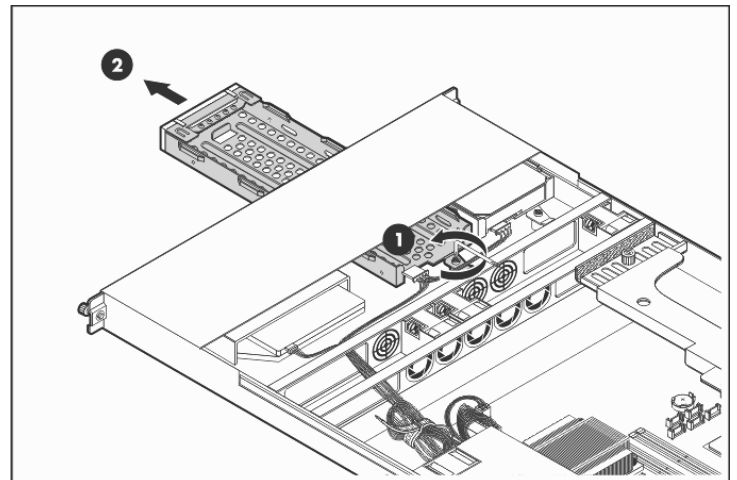
> **IMPORTANT:** SAS hard drives require that you also install the SAS controller board. This board should be installed in the low profile riser board slot.
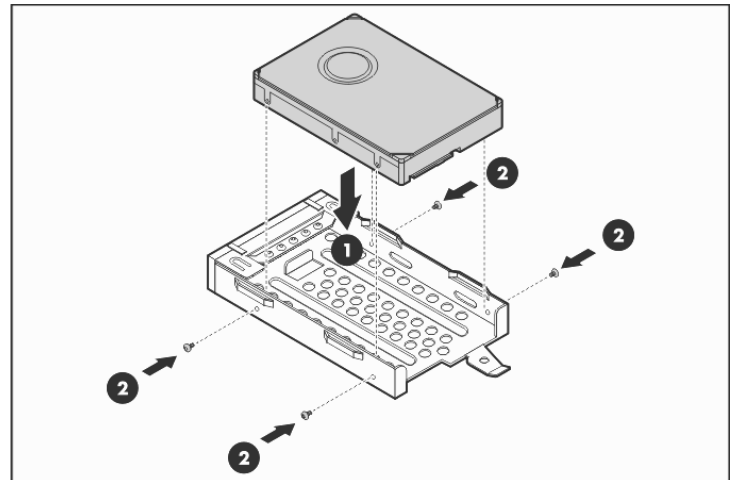
Hard drive installation

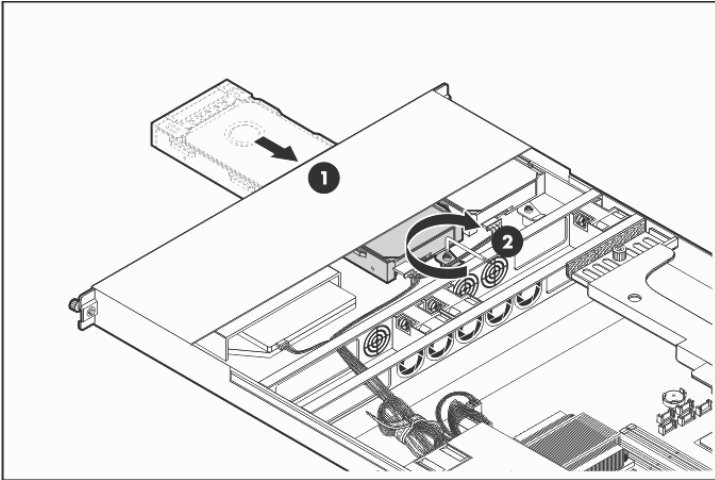1. Remove the secondary access panel.
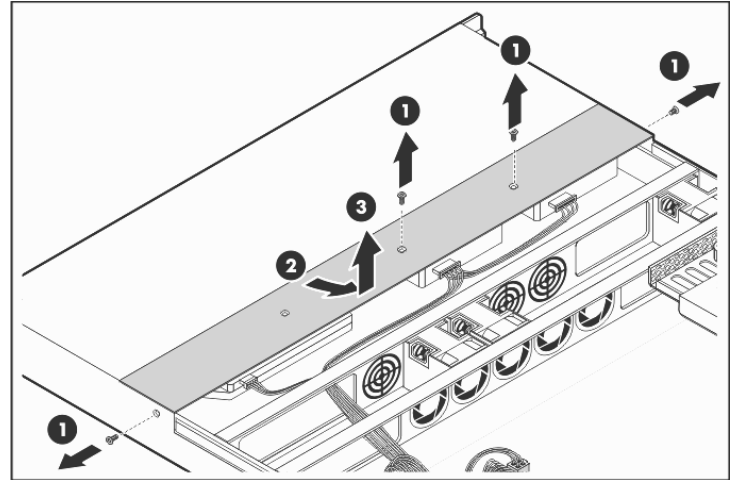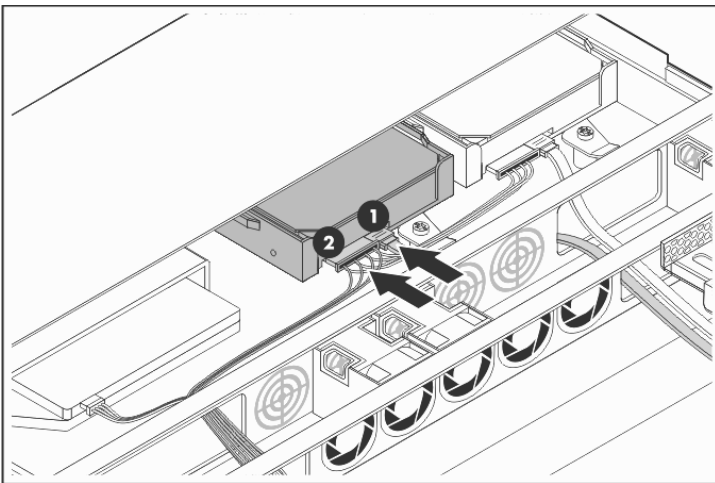

2. Remove the HDD 2 carrier.

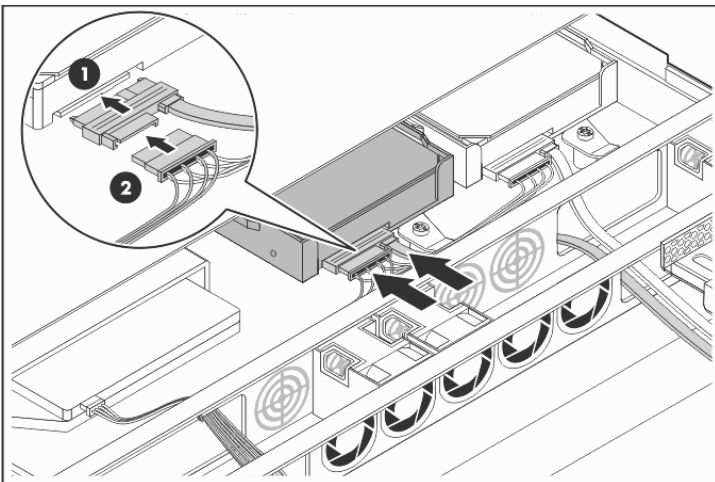3. Install the new hard drive in the HDD 2 carrier.

4. Install the new hard drive in the HDD 2 bay.

5. Connect the drive's signal and power cables.

SATA hard drive

SAS hard drive

Installing a memory module

The system has four DIMM slots that support up to 8 GB maximum system memory (2 GB in each of the four DIMM slots).
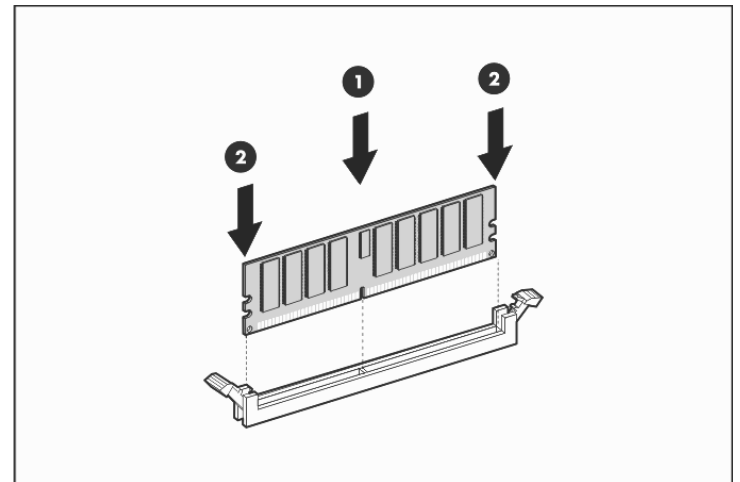
- Channel 1 – DIMM_CH1_A and DIMM_CH1_C
- Channel 2 – DIMM_CH2_B and DIMM_CH2_D

Memory installation guidelines

Observe the following important guidelines when installing memory modules:

- Use only HP supported 667/800 MHz unbuffered ECC DDR II DIMM in 512 MB, 1 GB, or 2 GB capacities.
- All DIMMs installed must be of the same speed.
- Supported DIMM configurations include:
  - Single DIMM (non-interleaving) – It must be installed in the DIMM_CH1_A slot.
  - Two DIMMs (interleaving) – Populate DIMM slots DIMM_CH1_A and DIMM_CH2_B.
  - Four DIMMs – For optimum performance, the amount of memory in channel 1 should be equal to the amount in channel 2.

Memory module installation

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