Environment Check Before Installation

You can install the NetBackup 5200 appliance in a standard 19-inch cabinet with an AC distribution box and minimum depth of 1,000 mm. Before you install the appliance into the cabinet, do the following:

• Reserve a space of at least 100 cm between the cabinet and the wall and the space of at least 120 cm between cabinets for the convenience of maintenance, ventilation, and heat dissipation.
• Ensure ventilation is adequate in the cabinet and the machine room. It is recommended to reserve the space of 1U (1U = 44.45 mm = 1.75 in) above and below any device.
• Make sure that the cabinet is already installed and grounded.

Before installation, check whether the external environmental conditions, such as the power supply and heat dissipation, satisfy the following operating requirements of the device:

• AC voltage range: 100 V to 127 V or 200 V to 240 V
• Maximum AC power of the NetBackup 5200: 700 W
• Operating temperature: 5 °C to 35 °C (altitude: - 60 m to +1,800 m)
  The ambient temperature falls by 0.6 °C for every 100 m increase of the height (altitude: 1,800 m to 3,000 m)
• Operating altitude: ≤ 3,000 m
• Relative humidity: 10% RH to 85% RH

Installation Flow

Before You Start

Start

Material lists

Take antistatic measures

Installing

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Install the NetBackup 5200 in the cabinet

Connect cables

Power on the NetBackup 5200

Configuring the NetBackup 5200

End
Material Lists

### NOTE
Power cables are subject to different regions and included in the cable list.

#### a Installing tools

- Phillips screwdriver (User Supplied)
- Mounting bar (User supplied)
- Cable tie
- Antistatic gloves
- Antistatic wrist strap with a clip-type grounding connector
- Antistatic wrist strap with a plug-type grounding connector

#### b Cables

- PS/2 to USB converter (User Supplied)
- KVM cable (User Supplied)
- 100 M/1000 M network cable
- LC multimode fiber (User Supplied)
- Grounding cable
- Serial cable

#### c The Guide Rails and the NetBackup 5200 Appliance

- The left and right guide rails
- 4U washer plates
- Captive nut
- The NetBackup 5200 appliance
Taking Antistatic Measures

1 Wear an Antistatic Wrist Strap

Scenario 1: Wearing an antistatic wrist strap (with a plug)

Scenario 2: Wearing an antistatic wrist strap (with a metallic clip)

NOTE
For an antistatic wrist strap with a plug-type grounding connector, place the wrist strap over your wrist and insert the grounding connector into the ESD socket on the cabinet. For an antistatic wrist strap with a clip-type grounding connector, clip it directly onto the cabinet.

2 Wear Antistatic Gloves
Installing the NetBackup 5200 in the Cabinet

1 Position the NetBackup 5200 in the Cabinet

Check the cabinet and position the NetBackup 5200

Before installation, please check the cabinet:
• If the cabinet with round-hole, you need to replace the guide pins in the guide rails to adjust the round-hole.
• If the cabinet with square-hole, you can use the guide rails, this guide takes the cabinet with square-hole for example.

You may refer to this diagram for device positions in the cabinet.
• Install the NetBackup 5200 and the other devices based on the actual installation environment.
• Position the NetBackup 5200 properly before installing it. Make sure that its weight is evenly distributed in the cabinet to keep its balance. It is recommended to install the NetBackup 5200 in the lower part of the cabinet to lower the center of the gravity.
a Specify the Positions of Captive Nuts

1. Insert the lower end of a captive nut into a square hole.
2. Place the mounting bar on the top of the captive nut and pull it into the hole until it snaps into place.
3. Completed installation view.

4U

1U

Bottom of the guide rails

Positions of captive nut
3 Install Guide Rails

1. Align the guide pins of the component and insert them into the square holes on the mounting rail of the cabinet.

2. Fasten a screw to fix the front end of the guide rail to the mounting rail. Fasten two screws to fix the rear end of the guide rail to the mounting rail.

3. Install a 4U washer plate to the front end guide rail, fasten a screw to fix the guide rail.

4. Repeat Steps 1-2 to install the other guide rail.

4 Install the NetBackup 5200 into the Cabinet

1. Slide the unit into the cabinet along the guide rails.

2. Secure the unit to the cabinet with screws.
Connecting Cables

The NetBackup 5200 has two configuration modes according to the cards in PCI-E slot, for details, see the following table. You need to connect the cables according to the two configuration modes. The GE NIC is 4-port GE NIC or 2-port GE NIC.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>PCI-E Slot 0</th>
<th>PCI-E Slot 1</th>
<th>PCI-E Slot 2</th>
<th>PCI-E Slot 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration mode 1</td>
<td>RAID card</td>
<td>None</td>
<td>10GE NIC or GE NIC</td>
<td>8Gb FC HBA</td>
</tr>
<tr>
<td>Configuration mode 2</td>
<td>RAID card</td>
<td>8Gb FC HBA</td>
<td>8Gb FC HBA</td>
<td>8Gb FC HBA</td>
</tr>
</tbody>
</table>

1 Cable Connection of the NetBackup 5200 Configuration Mode 1

Connect a maintenance terminal
- One end of the Cat 5 (or above) network cable connects to the management network port (IPMI or NIC 1) of the NetBackup 5200 and the other end to the maintenance terminal or management network.
- A KVM cable is used to connect KVM switch.
- A serial cable is used to connect the serial port of the NetBackup 5200 to this of the maintenance terminal.

Enable data transfer connectivity
- One end of the Cat 5 (or above) network cable connects to the network port (NIC 2) or the GE ports of the GE NIC (if your device is configured with GE NIC) of the NetBackup 5200 and the other end to the service switch (recommended) or application server (AS).
- (If your device is configured with 10GE NIC) One end of the multimode fiber cable connects to the 10GE network port of the NetBackup 5200 Slot 2 and the other end to 10GE switch.
- One end of the multimode fiber connects to the FC port of the NetBackup 5200 Slot 3 and the other end to the FC switch or tape library.

Power and ground the NetBackup 5200
- A grounding cable is used to ground the NetBackup 5200.
- The NetBackup 5200 is configured with two power modules. Connect power cables to both power modules.
Connect a maintenance terminal

- One end of the Cat 5 (or above) network cable connects to the management network port (IPMI or NIC 1) of the NetBackup 5200 and the other end to the maintenance terminal or management network.
- A KVM cable is used to connect KVM switch.
- A serial cable is used to connect the serial port of the NetBackup 5200 to this of the maintenance terminal.

Enable data transfer connectivity

- One end of the Cat 5 (or above) network cable connects to the network port (NIC 2) of the NetBackup 5200 and the other end to the service switch (recommended) or application server (AS).
- One end of the multimode fiber connects to the FC port of the NetBackup 5200 8Gb FC HBA and the other end to the FC switch or tape library (slot 3).

Power and ground the NetBackup 5200

- A grounding cable is used to ground the NetBackup 5200.
- The NetBackup 5200 is configured with two power modules. Connect power cables to both power modules.
Powering on the NetBackup 5200

1. Press the Power Switch on the rear panel of the NetBackup 5200

Power on sequence: cabinet → NetBackup 5200. There is one power switch on the NetBackup 5200. Press it.

2. Check the Indicators Status of the NetBackup 5200

**NOTE**

The following figures show the indicators in the normal state after power-on. For details about the indicator status, refer to the *NetBackup 5200 Product Description*.

**Indicators Status of the NetBackup 5200 (Front View)**

<table>
<thead>
<tr>
<th>Indicator Status</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. System power</td>
<td>On, green</td>
</tr>
<tr>
<td>2. System alarm/</td>
<td>Off</td>
</tr>
<tr>
<td>3. Disk online</td>
<td>The device is operating normally.</td>
</tr>
</tbody>
</table>
### Indicators Status of the NetBackup 5200 Configuration Mode 1 (Rear View)

<table>
<thead>
<tr>
<th>Indicator Description</th>
<th>Status/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power running/alarm indicator</td>
<td>On, green</td>
</tr>
</tbody>
</table>
| Link indicator of the service network port                 | • On, green. Data is being transferred at a rate of 1000Mbit/s.  
• On, orange. Data is being transferred at a rate of 100 Mbit/s.  
• Off. Data is being transferred at a rate of 10 Mbit/s or no link.  |
| Link indicator of the management network port              | On, green                                                                     |
| Active indicator                                           | • On, green. The link is normal.  
• Blinking, green. The link is normal and data is being transferred.  |
| Link indicator                                             | • On, green. Data is being transferred at a rate of 100Mbit/s.  
• On, amber. Data is being transferred at a rate of 1Gbit/s.  |
| Indicators of the GE NIC port                              | On/Blinking. Data is being transferred at a rate of 2Gbit/s.  
• Off. Data is being transferred at a rate of 4Gbit/s.  
• Off. Data is being transferred at a rate of 8Gbit/s.  |
| Indicators of the 10GE network port                        | On/Blinking. Data is being transferred at a rate of 2Gbit/s.  
• Off. Data is being transferred at a rate of 4Gbit/s.  
• Off. Data is being transferred at a rate of 8Gbit/s.  |
| Indicators of the FC HBA                                   | Power on (before firmware initialization).  
• Blinking. Power on (after firmware initialization).  
• Off. Data is being transferred at a rate of 2Gbit/s.  
• Off. Data is being transferred at a rate of 4Gbit/s.  
• Off. Data is being transferred at a rate of 8Gbit/s.  |
**Indicators Status of the NetBackup 5200 Configuration Mode 2 (Rear View)**

<table>
<thead>
<tr>
<th>Power running/alarm indicator</th>
<th>On, green</th>
</tr>
</thead>
</table>
| Link indicator of the service network port | • On, green. Data is being transferred at a rate of 1000Mbit/s.  
  • On, orange. Data is being transferred at a rate of 100 Mbit/s.  
  • Off. Data is being transferred at a rate of 10 Mbit/s or no link. |
| Link indicator of the management network port | On, green |

**Indicators of the FC HBA**

<table>
<thead>
<tr>
<th>8/yellow</th>
<th>4/green</th>
<th>2/amble</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Blinking</td>
<td>Blinking</td>
<td>Blinking</td>
</tr>
<tr>
<td>Off</td>
<td>Off</td>
<td>On/Blinking</td>
</tr>
<tr>
<td>Off</td>
<td>On/Blinking</td>
<td>Off</td>
</tr>
<tr>
<td>On/Blinking</td>
<td>Off</td>
<td>Off</td>
</tr>
</tbody>
</table>
Configuring the NetBackup 5200

1 Set the time of the NetBackup 5200

Before you initialize the NetBackup 5200, you need to synchronize the system time, IPMI time and RAID card time to the local time.

1. Log in to the NetBackup 5200.
   a. Log in to the OS of the NetBackup 5200 with default credential: admin/ P@ssw0rd.
   b. Execute Support command to enter NetBackup Support Mode.
   c. Execute Maintenance command to enter Maintenance Mode, and enter the default password: P@ssw0rd.
   d. Execute elevate to enter command line mode.

2. Set the system time to the local time
   a. Run yast command to enter the YaST control center.
      nb-appliance:~ # yast
   b. After start the YaST control center, select the System > Date and Time, and press Enter to confirm.
      In the Clock and Time Zone interface, set the Region, Time Zone, Hardware Clock, and Date and Time.

3. Synchronize the IPMI time to the system time
   After modification of the system time, run the following command to automatically set the IPMI time in the SHELL terminal interface.
      nb-appliance:~ # ipmitool sel time set ""date +%m/%d/%Y %k:%M:%S"

4. Synchronize the RAID card time to the system time
   Reboot the OS to synchronize the RAID card time to the system time.

2 Configure the NetBackup system

After you have successfully cabled your appliance, you are now ready to configure it to an existing NetBackup environment.

For detailed instructions on how to configure your appliance, refer to either of the following two documents:

• The Symantec NetBackup 5200 Installation and Configuration poster included with your appliance. You can also use the following URL to download a copy of this poster from the Symantec Support Web site.
   http://entsupport.symantec.com/docs/358343

• The Symantec NetBackup 5200 Administrator’s Guide installed on your appliance. You can also use the following URL to download the document from the Symantec Support Web site.
   http://entsupport.symantec.com/docs/358345

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