



Installing the Dell PowerEdge R630 Server

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Chapter 1: Installing the Dell PowerEdge R630 Server

Dell server overview

The Avaya Common Servers category includes Dell servers that support several Avaya software solutions, some requiring additional hardware and memory requirements beyond the standard configuration. This document covers the standard configuration only—consult specific Avaya product documentation for application-specific or solution-specific server configurations.

- Avaya Common Servers are supplied under an OEM relationship and Avaya servers are treated differently than other commercially available servers from the vendors.
- Avaya Common Servers are turnkey appliances. No server designed for a particular application can be repurposed for use with another application. The only exception to this is when an application has provided an upgrade or migration path from an existing server state to a different server state with the appropriate kits, tools, documentation, and training materials. For example, System Platform is providing a kit plus documentation for migrating a server running System Platform to Appliance Virtualization Platform.
- Neither customers, business partners, distributors, nor Avaya Associates interacting with customers and business partners, should get BIOS or other firmware updates for any third party OEM servers that are part of Avaya's turnkey appliance offers. Only consult Avaya-provided downloads, information and support. All BIOS or firmware updates are provided through Avaya. Go to the Avaya Support website at <http://support.avaya.com> for additional information.
- Remote access and use of Dell iDRAC hardware management tools for the Dell servers is employed by a limited number of Avaya applications. If iDRAC is supported, that application's documentation will define its configuration and use. Please check with the Avaya application product manager or appropriate documentation to confirm support.
- Do not contact Dell for service. If the server is purchased from Avaya, customer first point of contact is Avaya. All support, warranty, repair, and maintenance must be scheduled through Avaya. Avaya will contact Dell to assist as required.

Service and repair of consumable accessories and cables are not covered under maintenance. Customers must purchase these items.

- Avaya strongly recommends that all servers are protected with an Uninterruptable Power Supply for power surge and interruption protection. Avaya is not responsible for servers damaged by power surges, brown outs, or black outs.

- Substitution of a DC power supply in a server must be approved by the Application Product Manager before any substitution is made. If there is a significant demand for a turnkey solution with a DC power supply, an Avaya GRIP (Global Requirements Integration Process) request must be submitted. Partners registered to use this process can submit a GRIP request at <https://portal.avaya.com/apps/grip/partner.asp>. Avaya Associates may assist and can find information about this process at <http://spark4.avaya.com/grip>. Note, a GRIP request must be made for the Avaya application product, not the server model. The decision on whether to include a turnkey offer with a DC power supply is the responsibility of each Avaya application Product Manager. The name of the Product Managers for each application is at the bottom of the application page on the Avaya Global Sales portal.
- Dell's RAID battery is a consumable item that can be purchased as a part without a Service ticket. Customers are responsible for installing them, the procedure for which is in the maintaining and troubleshooting document or in appropriate OEM vendor documentation. The Avaya Service Notice about the RAID battery as consumable is Service Bulletin SB000130.
- Product labels on the servers themselves have the 9-digit base server codes and a base server description for Avaya Services to service and support. These 9-digit codes differ from the 6-digit orderable codes under which servers are ordered. On every server package, there is a Packing Label and a Hierarchy Label. The Hierarchy Label itemizes the stock list in the box of the 6-digit orderable code and Avaya recommends retaining them for reference.
- Quality assurance - product integrity testing and environmental international restrictions were completed by Dell and verified with Avaya using Design for Environmental Checklists. The list includes: batteries, printed wiring boards, plastic parts, product packaging, RoHS, green requirements, and energy efficiency.

Related links

[Registration](#) on page 7

Registration

- Registration is mandatory to receive support from Avaya, as described in the Avaya's SFAP or SAP policy. Avaya SFAP policy is available at <http://support.avaya.com> <https://downloads.avaya.com/css/P8/documents/100075395>. Also, you can go to the Avaya Support website at <http://support.avaya.com> under **Help & Policies > Policies & Legal > Intellectual Property Policy**.
- Avaya direct customers and Global Business Partners registration must go through the Global Registration Tool (GRT) process through <http://support.avaya.com>, directly accessed by: <https://grt.avaya.com/grt/> - **Create A New Registration**.

Related links

[Dell server overview](#) on page 6

How to use this document

This guide contains information for installing the Dell™ PowerEdge™ Servers as part of an Avaya deployment and provides:

- Instructions for how to find the appropriate online server documentation from Dell
- References to specific topics in standard Dell documentation
- Suggested changes, details, and notes to assist the user in interpreting the manufacturer's documentation and to clarify Avaya's recommended implementation of the equipment
- Additional topics not covered in standard Dell documentation but which are necessary for successful installation and maintenance of Avaya products
- To diagnose server problems, the user might require a Monitor, USB keyboard, and mouse to connect to the server.

Downloading Dell documentation

Use this procedure to find and download the Dell™ PowerEdge™ R630 documentation from Dell.

Procedure

1. Open a browser and to go <http://www.support.dell.com>.
2. On the Support page, scroll to the **Product support** section and click **View products** under Browse for a product.
3. Click *Servers, Storage, & Networking* in the “select a product” section.
4. Click *PowerEdge*.
5. Click *PowerEdge R630*.
6. Click **Manuals**.
7. Click the link that corresponds to the document that you want to download.
8. Download the documents in the *Dell R630 document set > Documents to download* section below.

Dell R630 documentation set

Refer to the documents listed below for Dell R630 server installation information and procedures.

*** Note:**

Download the documents listed in the *Documents to download* section below. Printed copies of the documents listed in the *Documents included in the shipping container* section below ship with the server.

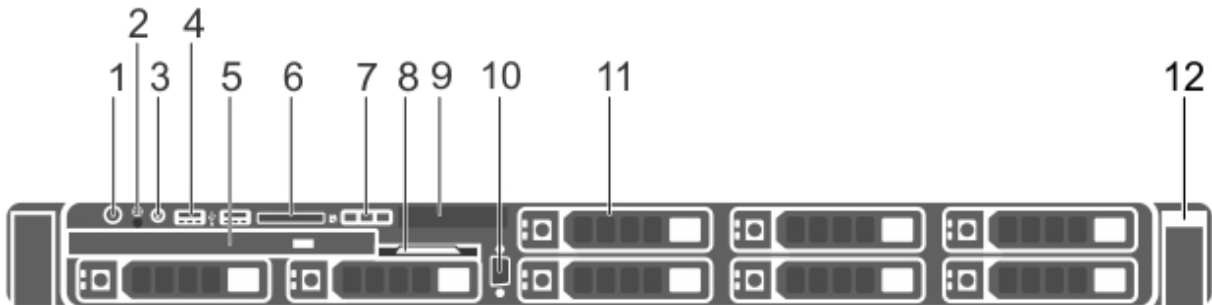
Documents to download

| Title |
|--|
| Dell PowerEdge R630 Getting Started With Your System |
| Dell PowerEdge R630 Owner's Manual |

Documents included in the shipping container








| Title |
|--------------------------------|
| Product Information Guide |
| Rack Installation Instructions |

Front view of Dell™ PowerEdge™ R630 Server



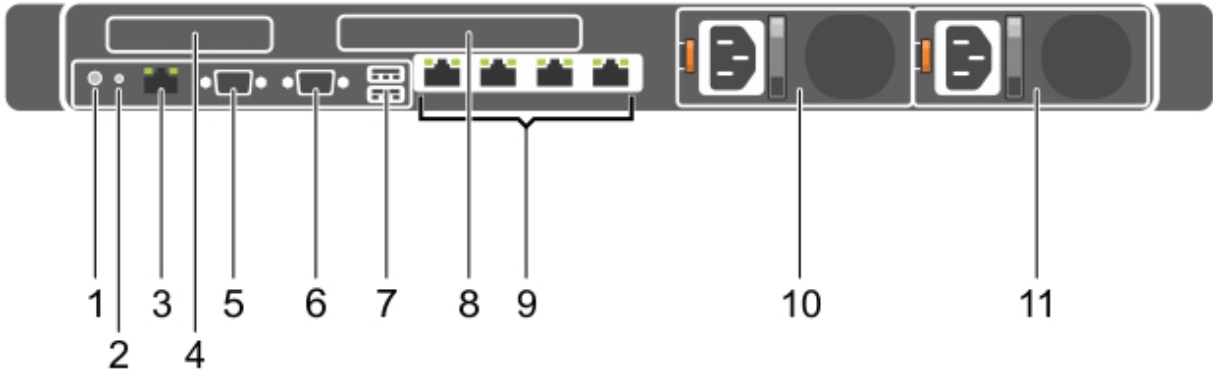
| No. | Item | Icon | Description |
|-----|----------------------------------|------|---|
| 1 | Power-On Indicator, Power Button | | <p>The power-on indicator lights when the system power is on. The power button controls the power supply output to the system.</p> <p>* Note:</p> <p>On ACPI-compliant operating systems, turning off the system using the power button causes the system to perform a graceful shutdown before power to the system is turned off.</p> |

Table continues...

| No. | Item | Icon | Description |
|-----|------------------------------|---|---|
| 2 | NMI Button |  | Used to troubleshoot software and device driver errors when running certain operating systems. This button can be pressed using the end of a paper clip. Use this button only if directed to do so by qualified support personnel or by the operating system documentation. |
| 3 | System Identification Button |  | The identification buttons on the front and back panels can be used to locate a particular system within a rack. When one of these buttons is pressed, the LCD panel on the front and the system status indicator on the back flashes blue until one of the buttons are pressed again. Press to toggle the system ID on and off. If the system stops responding during POST, press and hold the system ID button for more than five seconds to enter BIOS progress mode. To reset the iDRAC (if not disabled in F2 iDRAC setup) press and hold the button for more than 15 seconds. |
| 4 | USB Connectors (2) |  | Allows you to insert USB devices to the system. The ports are USB 2.0-compliant. |
| 5 | Optical Drive | | One DVD+/-RW drive.  Note: DVD devices are data only. |
| 6 | vFlash Media Card Slot |  | Not used in Avaya configurations. |
| 7 | LCD Menu Buttons | | Allows you to navigate the control panel LCD menu. |
| 8 | Information Tag | | A slide-out label panel, which allows you to record system information, such as Service Tag, NIC, MAC address. |
| 9 | LCD Panel | | Displays system ID, status information, and system error messages. The LCD lights blue during normal system operation. When the system needs attention, the LCD lights amber and the LCD panel displays an error code followed by descriptive text.  Note: If the system is connected to AC power and an error is detected, the LCD lights amber regardless of whether the system is turned on or off. |
| 10 | Video Connector |  | Allows you to connect a VGA display to the system. |
| 11 | Hard Drives | | Support for up to eight 2.5 inch hot-swappable hard drives.* * The first 2 HDDs are placed in the slots under the DVD Drive and read left to right, the remaining HDDs read top to bottom, left to right. |
| 12 | Quick Sync | | Not used in Avaya configurations. |





More information can be found in the *Front-panel features and indicators* section of the Dell Owner's Manual.

Back view of Dell™ PowerEdge™ R630 Server



| No. | Item | Icon | Description |
|-----|--------------------------------------|------|---|
| 1 | System Identification Button | | <p>The identification buttons on the front and back panels can be used to locate a particular system within a rack. When one of these buttons is pressed, the LCD panel on the front and the system status indicator on the back blink until one of the buttons are pressed again.</p> <p>Press to toggle the system ID on and off. If the system stops responding during POST, press and hold the system ID button for more than five seconds to enter BIOS progress mode.</p> <p>If you are directed by services to reset the iDRAC port, press and hold the button for more than 15 seconds.</p> |
| 2 | System Identification Connector | | Allows you to connect the optional system status indicator assembly through the optional cable management arm. |
| 3 | iDRAC8 Enterprise Port | | <p>Dedicated management port.</p> <p>* Note:</p> <p>The port is available for iDRAC8 Express features only. Avaya systems do not come with an Enterprise license. (Not normally used in Avaya systems.)</p> |
| 4 | PCIe Expansion Card Slot 1 (riser 2) | | <p>Allows you to connect a low profile PCIe expansion card.</p> <p>* Note:</p> <p>If your server is equipped with 6 or 8 NIC ports this slot can contain two port 10/100/1000 Mbps NIC connectors or two 100 Mbps/1Gbps/10 Gbps SFP + connectors, 2 CPUs must be installed for this slot to be available for use.</p> |

Table continues...

| No. | Item | Icon | Description |
|-----|--------------------------------------|---|---|
| 5 | Serial Connector |  | Allows you to connect a serial device to the system. |
| 6 | Video Connector |  | Allows you to connect a VGA display to the system. |
| 7 | USB Connectors (2) |  | Allows you to connect USB devices to the system. The ports are USB 3.0-compliant. |
| 8 | PCIe Expansion Card Slot 2 (riser 3) | | Allows you to connect a full-height half-length PCIe expansion card. * Note: If your server is equipped with 6 or 8 NIC ports this slot can contain two port 10/100/1000 Mbps NIC connectors or two 100 Mbps/1Gbps/10 Gbps SFP + connectors. |
| 9 | Ethernet Connectors (4) |  | Four integrated 10/100/1000 Mbps NIC connectors (Avaya Standard). * Note: NIC port numbers are read from left to right, starting with Port 1, then continuing to Ports 2, 3, and 4. |
| 10 | Power Supply (PSU1) | | Wattage and voltage type depends on configuration. |
| 11 | Power Supply (PSU2) | | Wattage and voltage type depends on configuration. |

More information can be found in the *Back-panel features and indicators* section of the Dell Owner's Manual.

Dell R630 server specifications

| Base unit | Baseline | Options |
|-----------|---|---|
| R630 | 1U chassis, dual socket | Listed below |
| Processor | Intel E5-2620v3, Six Core 2.4 GHz (Haswell) 4 memory channels per CPU with up to 3 DIMMs per channel (most applications use 1 or 2 DIMMs per channel to optimize memory speed) | <ul style="list-style-type: none"> Intel E5-2640v3 Eight Core/2.6 GHz (Haswell) Intel E5-2680v3 Twelve Core/2.5 GHz (Haswell) Upgradable to dual processors for any of the three processors. |
| Memory | 4 GB DDR4 RDIMMs | Max Capacity for memory (4 GB RDIMM): <ul style="list-style-type: none"> 48 GB, 12 x 4 GB (1 proc) 96 GB, 24 x 4 GB (2 proc) |

Table continues...

| Base unit | Baseline | Options |
|--------------------------|--|---|
| HW RAID | H730 RAID controller with 1 GB Cache and battery backup. Optioned as RAID 1, 5, or 10 | Other RAID configurations available |
| Hot-Plug disk drive cage | 8 Small Form Factor 2.5" hot-plug hard drive bays are available when an optical drive is installed. A typical Avaya configuration has up to four 2.5 inch hot-swappable hard drives. | High density HDD Avaya products will ship with 8 slots. |
| Disk drive | 300 GB SAS 2.5" 10K RPM 6G DP Hard Drive. Two base configurations: <ul style="list-style-type: none"> • 279 GB total: RAID 1, 2 x 300 GB drives • 558 GB total: RAID 5, 3 x 300 GB drives • 837 GB total: RAID 5, 4 x 300 GB drives • 558 GB total: RAID 10, 4 x 300 GB drives | <ul style="list-style-type: none"> • Additional 300 GB 10K RPM SAS drive • High performance 300 GB 15K SAS drives • High capacity 600 GB 10K SAS drives • High capacity 1.2 TB 10K SAS drives |
| NICs | 4 or 6 integrated ENET Gigabit NIC ports with TCP offload engine (included on motherboard) | Broadcom 5720 Dual Port 1 GbE NIC |
| PCIe slots | 2 PCIe risers (left and center) | <p>(Riser 2, Slot 1) One half-height, half-length PCIe slot available in a two CPU system. This slot is not available in a 1 CPU system.</p> <p>(Riser 3, Slot 2) One full-height, half length PCIe slot available for 1 and 2 CPU systems.</p> |
| Removable media | Slim line SATA DVD-RW optical drive (used in all Avaya configurations) | No additional options supported. |
| Power supply | 495 W or 750 W AC Hot Plug Power Supplies | <ul style="list-style-type: none"> • DC 1100W • Single and dual power supply configurations |
| Fans | 7 Fan modules | 7 Fan modules |
| Additional items | 2 front USB, 2 back USB, and 1 internal USB port Front Video Connector | |

Dell R630 server altitude and air pressure requirements

| | Altitude |
|------------------------------|------------------------------------|
| Operating altitude de-rating | Maximum altitude 3,048m (10,000ft) |

Table continues...

| | Altitude |
|---------|--|
| | <p>* Note:</p> <ul style="list-style-type: none"> • Up to 35°C (95°F): Maximum temperature is reduced by 1°C/300 m (1°F/547 ft) above 950 m (3,117 ft). • 35°C to 40°C (95°F to 104°F): Maximum temperature is reduced by 1°C/175 m (1°F/319 ft) above 950 m (3,117 ft). • 40°C to 45°C (104°F to 113°F): Maximum temperature is reduced by 1°C/125 m (1°F/228 ft) above 950 m (3,117 ft). |
| Storage | Maximum altitude 12,000m (39,370 ft) |

Dell R630 server physical specifications

| Type | Description |
|--------------------------------|-----------------------------|
| Dimensions | Height: 4.28 cm (1.69 inch) |
| | Width: 48.24 cm (18.99 in) |
| | Depth: 70 cm (27.58 in) |
| Weight (maximum configuration) | 18.6 kg (41 lb) |

Dell R630 server temperature and humidity requirements

| Specification | Value |
|--|---|
| Temperature range | |
| Operating (for altitude less than 950m or 3,117ft) | 10° to 35 °C (50° to 95 °F) with no direct sunlight on the equipment. |
| Storage | -40° to 65° C (-40° to 149° F) with a maximum temperature gradation of 20 °C (36 °F) per hour |
| Relative humidity | |
| Operating | 10% to 80% (non-condensing) with 26 °C (78.8 °F) maximum dew point |
| Non-operating | 5% to 95% with 33°C (91 °F) maximum dew point |

Dell R630 server power specifications

| Specification | Value |
|-----------------|---|
| BTU | 1058 BTU/hr |
| Voltage | 110 VAC (100–240 VAC auto-ranging 50/60 Hz) |
| Plug Type | NEMA 5-15P |
| Circuit Breaker | 15 amp |
| Pole | 1 |
| AMP Draw | 2.8 A, 310 W (based on 110 voltage) |

* Note:

The above power configuration is based on the following example:

- Two E5-2620 Processors
- Two 495W power supplies
- Two 300GB HDDs
- CPU load 100%
- Eight 4 GB 1866 MT/s DIMMs

Installing the server in the rack

About this task

* Note:

Although not used frequently, Avaya customers are required to have a monitor, USB keyboard, and USB mouse available for use by installation and/or servicing technicians.

Before you begin

Get the *Rack Installation Instructions* that are shipped with the hardware for more information. If not shipped with the hardware, see the Dell documentation Web site for instructions.

Procedure

1. Examine contents of shipping container (Avaya provided equipment), and ensure that the 6-digit material code on the order matches the 6-digit material code on the shipping container.
2. Verify that the rack is installed according to the manufacturer's instructions and in accordance with all local codes and laws. Verify that the rack is grounded in accordance with local electrical code.
3. Remove the cabinet doors, if necessary.
4. Attach the rails to the rack

The rails included with the server will accommodate most square-hole racks. If these rails do not fit the rack, the customer must provide rails or a shelf for rack installation. Also, the rails included with the server might not work with round-hole racks. The customer can obtain rails and/or a shelf from any distributor, for example <http://www.racksolutions.com/>. The customer-provided rails and rack must be on site prior to the first day of installation.

*** Note:**

The customer is responsible for any rack screws.

5. Attach the server to the rack.
6. Connect the power cord(s).

For more information about connecting and securing the power cable, see *Connecting the power cables* and *Securing the power cord* of the *Getting Started Guide*.

Setting an administrator password

About this task

You can set a password to protect the server from changes to the BIOS settings. In addition, the password protects against configuration changes such as updates to the Boot order, iDRAC configuration, and Boot enable or disable.

If you add password for BIOS, you must protect, retain, and provide the password when changes to the server are required.

Before you begin

Ensure that a monitor and USB keyboard and mouse are connected to the server.

Procedure

1. While restarting or turning on the server, at the Dell splash screen, press **F2** to select **System Setup**.
2. On the System Setup screen, click **System BIOS**.
3. Click **System Security**.
4. In the **Setup Password** field, type a password.
5. In the **Password Status** field, click **Locked**.
6. Click **Back**.

The system displays a prompt to enter the password again.

7. Click **Back**.
8. Click **Finish**.
9. Click **Finish**, and then **Confirm** or **Exit**.

The system exits menus and continues booting the server.

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