Rack & Power Infrastructure Options
Reference Information

Rack Cabinets

Designed to Fit Your Server. Server cabinets optimized for use with the complete line of Lenovo servers, storage and networking.

- Static rack cabinets (must be shipped empty)
- Dynamic rack cabinets (can be shipped with equipment installed)

Static racks

Lenovo static racks are sturdy rack cabinets that support Lenovo systems. Not designed to be shipped with equipment still installed.

S2 25U Static Standard Rack

Shorter rack (1.34 m / 53 in tall) to hold 25U of equipment. Perforated front door that provides improved air flow for a fan-free environment. Model 9307-2PX.

Learn more:

- Rack Cabinet Reference

S2 42U Static Standard Rack

Standard data center rack cabinet with a depth of 1000 mm to support a wide range of server equipment. Perforated front & rear doors to provide improved air flow. Model 9307-4RX.

Learn more:

- Rack Cabinet Reference

42U 1200mm Deep Static Rack

Data center rack cabinet with a depth of 1200 mm ensuring maximum compatibility with Lenovo servers, 0U pocket-mounted PDUs, and cable management systems. Ideal when doing on-site integration. Model 9361-4PX.

Learn more:

- Rack Cabinet Reference

Dynamic racks

Dynamic racks are reinforced rack cabinets that are designed to be shipped fully loaded with all systems installed and cabled.

12U 1200mm Deep Micro Data Center Rack

An industry-standard 19-inch server cabinet designed for rack servers that are to be deployed outside of traditional data centers. Model 7D2N0001WW.

Learn more:

- Product Guide

18U 1200mm Deep Micro Data Center Rack

An industry-standard 19-inch server cabinet designed for rack servers that are to be deployed outside of traditional data centers. Model 7D2P0001WW.

Learn more:

- Product Guide

S2 25U Dynamic Standard Rack

Shorter rack (1.34 m / 53 in) to hold 25U of equipment. Perforated front door that provides improved air flow for a fan-free environment. Model 9307-2RX.

Learn more:

- Rack Cabinet Reference

42U Enterprise Rack with available Expansion Rack

Data center rack cabinet with a depth of 1100 mm to support a wider range of server equipment. Perforated front & rear doors to provide improved air flow. Also available as an Expansion Rack without side panels to form space- and weight-efficient suites of racks. Models 9308-4PX (base) and 9308-4EX (expansion).

Learn more:

- Rack Cabinet Reference

42U 1200mm Deep Dynamic Rack

Data center rack cabinet with a depth of 1200 mm ensuring maximum compatibility with Lenovo servers, 0U pocket-mounted PDUs, and cable management systems. Robust rack design & re-usable shock packaging that protects the heaviest device configurations in transit. Model 9360-4PX.

Learn more:

- Rack Cabinet Reference
- Product guide

42U 1100mm Enterprise V2 Dynamic Rack with available Expansion Rack

Data center rack cabinet with a depth of 1100 mm to support a wider range of server equipment. Perforated front & rear doors to provide improved air flow. Support for four 0U PDUs. Also available as an Expansion Rack without side panels to form space- and weight-efficient suites of racks. Supports an optional Rear Door Heat eXchanger for water cooling. Models 9363-4PX (base) and 9363-4EX (expansion).

Learn more:

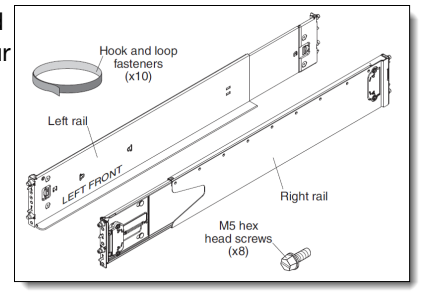
- Rack Cabinet Reference
- Rear Door Heat eXchanger datasheet

Rail Kits

Rail kits are used to install ThinkSystem servers into 19-inch rack cabinets.

ThinkSystem Rail Kits

Lenovo offers wide range of rail kit designs including toolless slide rails and friction rails which support latest ThinkSystem servers installed in any of our full range of 19-inch rack cabinets.



Learn more:

- Rail Kit support matrix

Cooling

Industry-Leading Cooling Systems. Uses chilled water to provide cooling for individual server cabinets.

Rear Door Heat eXchanger V2

Delivers an industry-leading cooling system that uses chilled water to provide cooling for individual rack cabinets. Supported on the 42U 1100mm Enterprise V2 Dynamic Rack, 9363-4PX and 9363-4EX.

Learn more:

- Datasheet
- 3D Interactive Tour
- Rack Cabinet Reference

KVM Switches & Consoles

Remote Access & Console Kits. Provides enhanced out-of-band local access, management, & security capabilities to Lenovo server environments.

Consoles

1U 18.5-inch Standard Media Console

The 1U 18.5-inch Standard Media Console is a cost-effective flat-panel console kit that offer a powerful and convenient way to manage space-constrained rack environments from a single console. Supports an optional region-specific keyboard with built-in trackpoint.

Learn more:

- Product guide

Console Managers

LCM8 and LCM16 Local Console Managers

Analog keyboard-video-mouse (KVM) console managers that provide enhanced local access, management, and security capabilities to Lenovo server environments. LCM8 supports one user console connected to 8 servers. LCM16 supports two user consoles connected to 16 servers. Optional upgrade to remote access with the LCM Digital Activation Key.

Learn more:

- Product guide

GCM16 and GCM32 Global Console Managers

Advanced digital keyboard-video-mouse (KVM) console managers that provide remote KVM-over-IP and serial console management technology in a single appliance. The GCM16 has 16 target ports and supports up to 2 local users and 2 remote users, and the GCM32 has 32 target ports and supports up to 2 local users and 4 remote users.

Learn more:

- Product guide

Power Distribution Units

Space-Efficient & Outlet-Dense. Lenovo Distributed Power Interconnect (DPI) power distribution units offer a cost-effective and feature-rich power distribution solution. 0U strip PDUs fit in special mounting points at the rear of supported rack cabinets. 1U PDUs either occupy a 1U space in the rack, or can fit in side pockets of supported rack cabinets.

- 0U PDUs
- 1U PDUs

Additional PDU reference documents:

- PDU Quick Reference Guide – North America
- PDU Quick Reference Guide – International
- PDU Technical Reference – North America
- PDU Technical Reference – International

0U Basic and Switched & Monitored PDUs

0U ("zero U") PDUs are designed to be installed vertically in the rear channel or side pockets of a Lenovo rack, thereby not consuming any horizontal rack space that otherwise be used by servers, storage and network switches.

0U Basic PDUs
Simple and cost-effective power distribution. Available with various outlet configurations and line cord options to support different systems and load requirements.

Ideal power distribution solutions when you need flexible, reliable, easy-to-deploy, cost-effective power distribution with branch circuit protection to minimize downtime. These rack-dense units distribute power to up to 42 outlets.

- PDUs available for North America, Mexico, Saudi Arabia, Japan, Philippines, and Brazil:
  - Single phase input, 30A derated to 24A; 36x C13 and 6x C19 outlets
  - Three phase input 60A derated to 48A; 21x C13, 12x C19 outlets
- PDUs available for all other countries:
  - Single phase input, 32A; 36x C13 and 6x C19 outlets
  - Three phase input 32A; 21x C13, 12x C19 outlets

Learn more:

- Product guide

0U Switched & Monitored PDUs

Advanced power management solutions, providing power monitoring at the outlet level, with increased accuracy at low amperages, for more precise views of power consumption down to the individual server level instead of at the consolidated load group. These PDUs also offer management via a web-based interface which includes individual outlet switching (on/off). Outlet switching allows for remote power sequencing and helps prevent unintended PDU overloading. These rack-dense units distribute power to up to 24 outlets.

- PDUs available for North America, Mexico, Saudi Arabia, Japan, Philippines, and Brazil:
  - Single-phase input, 30A derated to 24A; 20x C13 and 4x C19 outlets
  - Three-phase input 60A derated to 48A; 12x C13 and 12x C19 outlets
- PDUs available for all other countries:
  - Single-phase input, 32A; 20x C13 and 4x C19 outlets
  - Three-phase input 32A; 18x C13 and 6x C19 outlets

Learn more:

- Product guide

1U Basic, Monitored, and Switched & Monitored PDUs

1U PDUs are installed in a rack, occupying either one full rack unit or half the width of a rack unit. Some 1U PDUs can also be mounted in the side pockets of supported rack cabinets.

1U Basic PDUs

Simple and cost-effective power distribution. Available with various outlet configurations and line cord options to support different systems and load requirements.

DPI 100-127V PDU with fixed NEMA L5-15P line cord

Provides an economical, basic power distribution capacity for rack-based systems. 15A low-range input with 6x NEMA 5-15R outlets. Fixed NEMA L5-15P line cord. Half-rack width so two can be mounted in a single 1U space for a total of 12 outlets.

Learn more:

- Datasheet

DPI Universal 7 C13 PDU

Provides an economical, basic power distribution capacity for rack-based systems. Supports 100-240 VAC 50/60 Hz input with 15A circuit breaker. 7x C13 10A outlets. Includes 2m IEC 320-C19 to C20 rack power cord. Optionally use cascaded with DPI Front-End PDUs for enhanced power distribution. Half-rack width so two can be mounted in a single 1U space for a total of 12 outlets.

Learn more:

- Datasheet

DPI Front-End PDUs

Modular, front-end PDUs providing three single-phase IEC 320 C19 outlets (100-127VAC at 30A, 200-240VAC at 30A, 200-240VAC at 60A) from one single-phase input circuit. Supports cascading of up to three DPI Universal PDUs. Fixed line cord. 1U, half rack width or side pocket in a supported rack.

- DPI 30A/125V Front-end PDU with NEMA L5-30P line cord
- DPI 30A/250V Front-end PDU with NEMA L6-30P line cord
- DPI 32A/250V Front-end PDU with IEC 309 2P+Gnd line cord
- DPI 60A/250V Front-end PDU with IEC 309 2P+Gnd line cord
- DPI 63A/250V Front-end PDU with IEC 309 2P+Gnd line cord

Learn more:

- Datasheet

DPI Enterprise PDUs

Enterprise PDUs have either 12 C13 outlets or six C19 outlets. The PDUs support three-phase or single-phase input power at 63A, 32A, or 30A depending on the line cord selected. Installs in 1U rack space or a side pocket in a supported rack.

- C13 Enterprise PDUs (12x IEC 320 C13 outlets)
  - DPI Single Phase C13 Enterprise PDU (without line cord), 39Y8941
- C19 Enterprise PDUs (6x IEC 320 C19 outlets)
  - DPI Single Phase C19 Enterprise PDU (without line cord), 39Y8948
  - DPI 60A 3 Phase C19 Enterprise PDU with IEC 309 3P+G (208 V) fixed line cord, 39Y8923

Learn more:

- Datasheet

Ultra Density Enterprise PDUs

Designed power distribution efficiency with nine IEC-320 C19 receptacles on the front, three IEC-320 C13 on the rear panel, and individual breakers per load group.

1U Monitored PDU

Monitored PDUs provide the same benefits as a Basic PDU, but adds additional advanced PDU power monitoring down to the load group.

DPI C13 Enterprise PDU+, 39M2816

This 1U Enterprise PDU+ is a monitored PDU with 12x C13 10A outlets. The PDU supports three-phase or single-phase input power at 63A, 32A, or 30A depending on the line cord selected. Installs in 1U rack space or a side pocket in a supported rack. Includes an Environmental Monitoring Probe (EMP).

Learn more:

- Datasheet

1U Switched & Monitored PDUs

Advanced power management solutions, providing power monitoring at the outlet level, with increased accuracy at low amperages, for more precise views of power consumption down to the individual server level instead of at the consolidated load group. These PDUs also offer management via a web-based interface which includes individual outlet switching (on/off). Outlet switching allows for remote power sequencing and helps prevent unintended PDU overloading.

Three-phase PDUs with fixed IEC 309 3P+Gnd line cord:

- 60A input, 9x C19 and 3x C13 outlets
- 60A input, 12x C13 outlets

Single-phase DPI PDUs with detachable country-specific line cord:

- 60A input, 9x C19 and 3x C13 outlets
- 60A input, 12x C13 outlets

Learn more:

- Product guide

Uninterruptible Power Supplies

Power Protection. Safeguards the high-availability of your server environment with increased efficiency

and simplified power management.

- Tower UPS Units
- Rack UPS Units

Additional UPS reference documents:

- UPS Quick Reference Guide
- UPS Technical Reference

Tower UPS Units

Lenovo Tower UPS units provide power protection with increased efficiency and simplified power management to safeguard the high-availability of Lenovo server environments. With efficiency ratings of up to 97%, these compact tower designs can help reduce energy usage without compromising performance or reliability. Integration with UPS Power Protector (UPP) and UPS Power Manager (UPM) software for power management.

T1kVA Tower UPS

Tower UPS with support for up to 770W of continuous power. Available in two configurations:

- 100-125VAC input with fixed line cord, 8x NEMA 5-15R 12A outlets (55951AX)
- 200-240VAC input with C14 connector, 8x IEC 320 C13 10A outlets (55951KX)

Learn more:

- Product guide
- Datasheet

T1.5kVA Tower UPS

Tower UPS with support for up to 1100W of continuous power. Available in two configurations:

- 100-125VAC input with fixed line cord, 8x NEMA 5-15R 12A outlets (55952AX)
- 200-240VAC input with C14 connector, 8x IEC 320 C13 10A outlets (55952KX)

Learn more:

- Product guide
- Datasheet

Rack UPS Units

Protection with powerful management tools optimized for virtual environments. Available in capacities up to 10kW of continuous power. Installable in a rack or as a standalone tower unit.

RT1.5kVA 2U Rack or Tower UPS
RT2.2kVA 2U Rack or Tower UPS
RT3kVA 2U Rack or Tower UPS

These 2U UPS units offer up to 1440W (1.5kVA model), 1980W (2.2kVA model) or 2700W (3kVA model) of continuous power. They can be installed in a data center rack cabinet as a 2U rack device or can be used as a tower UPS in office and distributed IT environments where extended power protection is required. Each supports up to four optional 2U Extended Battery Modules for longer runtimes.

Learn more:

- Product guide
- Datasheet

RT5kVA 3U Rack or Tower UPS
RT6kVA 3U Rack or Tower UPS

The RT5kVA and RT6kVA are 3U rack mount units that provide up to 4500W (5kVA model) or 5400W (6kVA model) of continuous power. These units either install in a 3U rack space or ship with the upright supports that enable to UPS to be used upright as a tower. Each supports up to four optional 3U Extended Battery Modules for longer runtimes.

Learn more:

- Product guide

RT8kVA 6U Rack or Tower UPS
RT11kVA 6U Rack or Tower UPS

The RT8kVA and RT11kVA are 6U rack mount units that provide up to 7200W (8kVA model) or 10,000W (11kVA model) of continuous power. These units either install in a 6U rack space or ship with the upright supports that enable to UPS to be used outside of a rack cabinet. Each UPS supports up to four optional 3U Extended Battery Modules for longer runtimes.

Learn more:

- Product guide
- Datasheet

Related product families

Product families related to this document are the following:

- Uninterruptible Power Supplies
- Power Distribution Units
- Rack Cabinets
- KVM Switches & Consoles

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