Enclosure and rack systems

Schneider Electric NetShelter™ enclosures, open frame racks, and related products provide a complete solution to meet the challenges facing server and networking applications in every environment.

- Best-in-class NetShelter enclosures offer the most standard features to facilitate installation and speed of deployment, integrating seamlessly with the full line of Schneider Electric InfraStruXure™ components.
- Rack power distribution units (PDUs), jointly designed with NetShelter enclosures, enable pinpoint control and monitoring of rack-level power.
- Rack accessories provide superior cable management capabilities for high-density networking and blade applications.

Schneider Electric enclosure and rack systems

**Today’s high-density server and networking applications demand a rack infrastructure that can mount a mix of different equipment and support high-capacity cable management in an efficient, flexible design.**

**Racks and enclosures: the building blocks of every IT environment**

Trends like virtualization, consolidation, convergence, and blade server adoption are forcing different types of equipment to share the same space. Today’s high-density devices generate tremendous amounts of heat. Rapidly changing business conditions require the IT environment to adapt and adjust faster than ever, and the imperative of uninterrupted uptime now has the corollary demand of efficiency.

Whether it’s a network closet, server room, or data center of any size, IT operations rely on racks and enclosures for support, organization, and management of the rack-mount equipment. Servers, storage, switches, routers, PDUs, console port servers, KVM switches — today’s racks and enclosures are expected to support a greater number and variety of applications and devices.

**Table of contents**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetShelter SX applications and selection</td>
<td>4</td>
</tr>
<tr>
<td>NetShelter SX enclosure features</td>
<td>6</td>
</tr>
<tr>
<td>NetShelter SX networking enclosure</td>
<td>7</td>
</tr>
<tr>
<td>NetShelter SX cable management</td>
<td>8</td>
</tr>
<tr>
<td>Shelves and mounting hardware</td>
<td>12</td>
</tr>
<tr>
<td>Rack components</td>
<td>13</td>
</tr>
<tr>
<td>Open frame racks</td>
<td>14</td>
</tr>
<tr>
<td>NetShelter CX enclosure</td>
<td>16</td>
</tr>
<tr>
<td>Specialty enclosures</td>
<td>17</td>
</tr>
<tr>
<td>Rack cooling and airflow management</td>
<td>18</td>
</tr>
<tr>
<td>Rack power distribution</td>
<td>19</td>
</tr>
<tr>
<td>LCD monitors and KVM switches</td>
<td>20</td>
</tr>
<tr>
<td>NetBotz security and environmental monitoring</td>
<td>21</td>
</tr>
<tr>
<td>NetShelter enclosure and rack accessory compatibility chart</td>
<td>22</td>
</tr>
<tr>
<td>Online resources</td>
<td>28</td>
</tr>
</tbody>
</table>

Click here to access the latest electronic version of this brochure.
NetShelter SX applications and selection

The world’s most versatile rack enclosure for demanding IT environments

Ready for high-density environments right out of the box, NetShelter SX rack enclosures offer the most standard features on the market today. Influenced by 10 years of customer feedback, Schneider Electric has specifically engineered the next-generation NetShelter SX enclosure to handle today’s power-hungry, high-density server and networking applications.

The NetShelter SX is the base building block of the InfraStruXure system. NetShelter SX has many inherent features that facilitate a faster installation and reduce handling after installation, lowering your installation and operating costs. In addition, the homogenous appearance of the NetShelter SX and its sister components in an InfraStruXure solution provides a clean, consistent look that every first-rate data center requires.

NetShelter SX applications and selection

Rolling enclosure systems for converged IT:

- High-efficiency, high-density, integrated solutions
- With IT hardware trending toward Converged Infrastructure (CI) and single-source IT providers, a simplified prebuilt and pretested solution is more standardized, better defined, and quickly becoming preferred over the numerous combinations of IT hardware and software solutions of the past. Customers are looking for solutions that deliver fully populated IT racks — whether to the customer site or a co-location facility.
- Schneider Electric rack systems have been pre-engineered as an optimized system for efficiently housing multiple IT equipment types in high-density situations. Special packaging options for NetShelter SX enable integrators to “rack and stack” the solution for a truly end-to-end converged system delivered prebuilt, pretested, racked, and shipped to the end customer. The packaging provides peace of mind of safe delivery of costly IT investment and the partner provides a choice of simplified, plug-and-play, integrated solutions.

NetShelter SX enclosure to handle today’s power-hungry, high-density server and networking applications.

- Best-in-class design
- Offers most standard features to facilitate installation and speed of deployment.
- Guarantees compatibility with all EIA standard 19 in. rack-mount equipment — or your money back.
- Integrates seamlessly with the full line of InfraStruXure components.

- Greatest flexibility
- Available in 24U, 42U, 45U, and 48U heights, 24 in. and 30 in. widths, and 32.5 in., 42 in., and 47.5 in. depths.
- Easily adjustable vertical mounting rails for equipment varying in depth.
- Rapid installation of vertical rack PDUs in the rear vertical zero-U accessory channel of NetShelter enclosures.

- Superior cable management capabilities
- Accommodate high-density networking and blade applications.
- Easy installation to enable faster and easier moves, adds, and changes.
- Promote proper airflow to improve cooling efficiency.

Take the NetShelter SX 3D tour.

Applications for height

- 24U enclosures — Remote offices and small spaces.
- 42U enclosures — Standard height used globally, designed to fit through standard doorways.
- 45U enclosures — Enclosures with additional U-spaces for environments that standardize on a 45U, 7 ft. enclosure height.
- 48U enclosures — More U-spaces for more equipment in the same footprint.

Applications for width

- 24 in. wide enclosures are the standard for most server applications. For higher densities, a deeper enclosure may be required.
- 30 in. wide enclosures offer more space for high-capacity cable management and power distribution. Typically, wider enclosures are used for networking applications but the extra side space is often requested in blade server applications.

Applications for depth

- 32.5 in. is the preferred depth for AV equipment.
- 42 in. is the standard depth and meets most low-to-medium-density applications.
- 48 in. deep enclosures are becoming the new standard because of increasing server depth and large switches and servers.

NetShelter SKU Height Width Depth Application

<table>
<thead>
<tr>
<th>NetShelter SKU</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR3100</td>
<td>42U</td>
<td>24 in.</td>
<td>42 in.</td>
<td>Low/medium-density servers</td>
</tr>
<tr>
<td>AR3105</td>
<td>45U</td>
<td>24 in.</td>
<td>42 in.</td>
<td>Low/medium-density servers</td>
</tr>
<tr>
<td>AR3107</td>
<td>48U</td>
<td>24 in.</td>
<td>42 in.</td>
<td>Low/medium-density servers</td>
</tr>
<tr>
<td>AR3150</td>
<td>42U</td>
<td>30 in.</td>
<td>42 in.</td>
<td>Networking and blade applications</td>
</tr>
<tr>
<td>AR3152</td>
<td>45U</td>
<td>30 in.</td>
<td>42 in.</td>
<td>Networking and blade applications</td>
</tr>
<tr>
<td>AR3300</td>
<td>42U</td>
<td>24 in.</td>
<td>47.5 in.</td>
<td>Medium/high-density servers</td>
</tr>
<tr>
<td>AR3305</td>
<td>45U</td>
<td>24 in.</td>
<td>47.5 in.</td>
<td>Medium/high-density servers</td>
</tr>
<tr>
<td>AR3307</td>
<td>48U</td>
<td>24 in.</td>
<td>47.5 in.</td>
<td>Medium/high-density servers</td>
</tr>
<tr>
<td>AR3350</td>
<td>42U</td>
<td>30 in.</td>
<td>47.5 in.</td>
<td>HD networking and blade applications</td>
</tr>
<tr>
<td>AR3355</td>
<td>45U</td>
<td>30 in.</td>
<td>47.5 in.</td>
<td>HD networking and blade applications</td>
</tr>
<tr>
<td>AR3357</td>
<td>48U</td>
<td>30 in.</td>
<td>47.5 in.</td>
<td>Networking and blade applications</td>
</tr>
<tr>
<td>AR3360</td>
<td>42U</td>
<td>30 in.</td>
<td>42 in.</td>
<td>High-density networking</td>
</tr>
<tr>
<td>AR3362</td>
<td>45U</td>
<td>30 in.</td>
<td>42 in.</td>
<td>Very-high-density networking</td>
</tr>
<tr>
<td>AR3364</td>
<td>48U</td>
<td>30 in.</td>
<td>47.5 in.</td>
<td>Very-high-density networking</td>
</tr>
<tr>
<td>AR3367</td>
<td>48U</td>
<td>30 in.</td>
<td>47.5 in.</td>
<td>2 x 20U compartments for colocation</td>
</tr>
<tr>
<td>AR3200</td>
<td>42U</td>
<td>24 in.</td>
<td>42 in.</td>
<td>Remote server applications</td>
</tr>
<tr>
<td>AR3811</td>
<td>42U</td>
<td>24 in.</td>
<td>32.5 in.</td>
<td>Audiospatial applications</td>
</tr>
<tr>
<td>AR3812</td>
<td>42U</td>
<td>24 in.</td>
<td>32.5 in.</td>
<td>Audiospatial applications</td>
</tr>
<tr>
<td>AR3814</td>
<td>42U</td>
<td>24 in.</td>
<td>32.5 in.</td>
<td>Audiospatial applications</td>
</tr>
</tbody>
</table>

- The following can be preconfigured without standard doors and side panels. Reference part numbers AR3103, _X010 for no sides, AR3105, _X010 for no doors, and AR3107, _X010 for no side/doors. More configurations are available; contact your local Schneider Electric sales representative for more information.
- TAA Compliant enclosure available.
- White enclosure available.
- Shock packaging available for shipping enclosures with up to 2,000 lbs. of equipment installed.
NetShelter SX enclosure features

More standard features for faster installation

1. **Cable access roof**
   - Eight cable entry slots
   - Toolless mounting of overhead cable trough system
   - Snap-in mounting to allow easy roof removal and installation with cables in place

2. **Integrated baying brackets**
   - Preinstalled on frame, front and back
   - Spacing options at 24 in.
   - Bays with other Schneider Electric power and cooling products

3. **Preinstalled leveling feet and castors**
   - Easily adjustable leveling from top-down
   - Castors standard on all enclosures

4. **Toolless, zero-U accessory channel**
   - Toollessly mount rack PDUs
   - Toollessly mount vertical cable organizers

5. **Easily adjustable vertical mounting rails**
   - Simple screw and cam engagement
   - Captive screws — no loose hardware
   - Easy visual alignment for quick adjustment
   - Adjust in 0.25 in. increments through enclosure
   - Hole cutouts for 0U installation (AR8469) of Data Distribution Cable (DDC) accessories

6. **Half-height side panels**
   - Easy and safe handling
   - Quick release latch
   - Lockable — same key as doors
   - Enclosure width remains the same with or without sides attached

Other standard features include:
- Integrated electrical bonding of sides, doors, roof, and rails to frame
- Ventilated front and rear doors
- Split-rear ventilated rear doors for better clearance in hot aisle
- Numbered U positions front and back
- Open bottom for unobstructed under-floor access
- 3,000 lb. static load, 2,250 lb. dynamic (rolling) load
- UL Listed
- Electronic Industries Association (EIA)/ECA-310-E compliant
- Meets IBC seismic requirements with proper bolt-down hardware

NetShelter SX networking enclosure

Optimized NetShelter SX design for enhanced networking application support and a superior solution for side airflow Cisco Nexus®, Catalyst®, and MDS networking switches

7. **Cable access roof**
   - Extra-large cable access slots for high-density cabling and brush strips for air containment
   - Two spring-loaded pins allow for easy roof removal and installation with cables in place

2. **Networking-style mounting rails**
   - Easily align rails that adjust in 0.25 in. increments
   - Left vertical mounting rail contains additional cable channel
   - Rail position preset to accommodate Cisco switches and cable management

3. **Preinstalled vertical cable managers**
   - Front vertical mounting rails feature preinstalled, single-sided vertical cable managers
   - Smooth plastic fingers provide proper bend radius for cables

4. **Vertical mounting rails for side-to-side airflow**
   - Front-right vertical mounting rail open for improved side airflow

Side airflow cooling

Support cooling for small and large networking switches mounted within an enclosure.

- Side airflow solution (AR7742/AR7747) for Cisco Nexus 7018
- Side airflow duct kit (AR7715) mounts inside 30 in. wide enclosures for Cisco 6500 and 9500 series switches
- Side airflow duct kit (AR7725) mounts inside 30 in. wide enclosures for Cisco Nexus 7009

All solutions
- Direct cool air at the front of the enclosure directly and predictably to the intake at the side of side airflow switches
- Consist of two duct assemblies that act as diverters, utilizing the existing fan power of the switch
- Contain a system of baffles located throughout the enclosure to mitigate exhaust air from recirculating back into the air intake

AR3340 and AR7742 side airflow solution for Nexus 7018

AR3140 — 42U x 30 in. W x 42 in. D
AR3340 — 42U x 30 in. W x 47.5 in. D
AR3347 — 48U x 30 in. W x 47.5 in. D

As the number of IT components within each rack enclosure continues to increase, so do the number of power and data cables. Schneider Electric offers a large selection of vertical and horizontal cable managers to address today’s cable routing demands. From toolless-install ring-style managers for server applications, to high-density finger-type managers for supporting patching and switches, Schneider Electric is a leader in innovative, application-driven solutions. Our unique overhead cable management system turns the top of the enclosure into a cable tray, eliminating the need to use space under a raised floor and permitting better organization in nonraised floor environments.

Schneider Electric has a strong history supporting the server applications in data centers around the world. The innovative, toolless, snap-in accessories have become the benchmark for server cable management.

**NetShelter SX cable management**

Server and networking applications

High-capacity cable managers can be used to support fiber and copper cable bundles.

1. **AR7580A** — High-capacity vertical cable manager for NetShelter SX 30 in. wide enclosures (AR3x5x), supports 190 to 250 CAT 6A/CAT 6 data cables per section and 190 CAT 6A (0.25 in. to 0.30 in. dia.) per channel section. Each kit covers one corner of the enclosure.

2. **AR7581A** — Hinged covers for AR7580A vertical cable managers.

3. **Fiber slack spools for mounting to the vertical mounting rails of NetShelter SX 30 in. wide enclosures (AR3x5x).**

Additional high-capacity vertical cable managers and covers available for specific enclosure heights, 42, 45, and 48U. Visit the website for a complete listing.

Check out “Cable Management for Enclosure and Rack Systems” for a comprehensive list of cable management options.

**NetShelter SX cable management**

Toolless accessories

**Vertical cable management**

Schneider Electric specializes in toolless-install accessories by the use of the zero-U channels located in the rear of every NetShelter SX enclosure.

1. **Vertical 0U accessory channels**
   - Allows toolless mounting of vertical rack PDUs
   - Toollessly mount vertical cable organizers
   - Additional vertical 0U accessory channels:
     - **AR7502:** Vertical 0U accessory channel, 42U, qty. 2
     - **AR7503:** Vertical 0U accessory channel, 45U, qty. 2
     - **AR7572:** Vertical 0U accessory channel, 48U, qty. 2
     - **AR7511:** Narrow vertical 0U accessory channel, 42U
     - **AR7505:** Vertical cable organizer, center rear mount

2. **AR8442** — Vertical cable organizer, eight cable rings, zero U
   - Supports 35 to 55 CAT 6/CAT 6A data cables
   - Mounts toollessly on the vertical 0U accessory channel

3. **AR8443A** — Vertical fiber organizer
   - Installs toollessly
   - Takes up one bay of channel
   - Fiber spool only kit available (AR8444)

4. **AR8457** — Data distribution 0U SX panel
   - Installs toollessly
   - Takes up one bay of channel
   - Toollessly mount up to four DDC cable heads, 24 ports for rack-to-rack connections

5. **AR7710** — Cable containment brackets with rack PDU mounting
   - Low-profile vertical cable management
   - Support 60 to 90 CAT 6/CAT 6A data cables
   - Mount toollessly on the vertical 0U accessory channel

6. **AR7711** — Zero-U accessory bracket
   - Mounts rack PDUs in rear-facing orientation
   - Supports third-party accessories in numerous mounting configurations
   - Mounts 1U or 2U patch panels or other networking accessories

7. **AR8621** — Hook-and-loop cable managers, qty. 10
   - Mount toollessly on the vertical 0U accessory channel
   - Secure and bundle cables with hook-and-loop ties

8. **AR7721, 22, 23** — Low-profile vertical cable managers, zero U
   - Supports up to 38 CAT 6A or 251 fiber cables
   - Mounts toollessly on the vertical 0U accessory channel
NetShelter SX cable management

Horizontal cable managers

Finger-type horizontal cable managers
Cable managers for patching and crossover applications featuring smooth radius plastic fingers that protect the cable from kinking and binding. Hinged, snap-on covers provide a clean look and retain large cable bundles. These cable managers include hardware for double-sided configurations with two units.

- **AR8008BLK** — 1U horizontal cable manager with 4 in. fingers and snap-on cover
- **AR8129** — 1U horizontal cable manager with 6 in. fingers and snap-on cover
- **AR8429** — 2U horizontal cable manager with 6 in. fingers and snap-on cover
- **AR8432** — 2U horizontal cable manager with 4 in. fingers and snap-on cover
- **AR8437** — 2U horizontal cable manager with multiple rings and small cable retainers
- **AR8707** — Cable management rings (qty. 5 large, 5 small)
- **AR8708** — Cable management rings, 8 in. deep for 30 in. wide enclosures (AR3x5x), qty. 8

Ring-type horizontal cable managers
Economical cable managers for patching applications featuring various configurations to meet specific needs.

- **AR8425A** — 1U horizontal cable manager with four rings
- **AR8426A** — 2U horizontal cable manager with four rings
- **AR8428** — 2U horizontal cable manager with four rings and pass-through holes
- **AR8427A** — 2U horizontal cable manager with multiple rings and small cable retainers
- **AR8813A** — Cable management rings (qty. 5 large, 5 small)
- **AR8707** — Cable management rings, 8 in. deep for 30 in. wide enclosures (AR3x5x), qty. 8

Horizontal cable management accessories
- **AR8429** — 1U cable pass-through manager with brush strip
- **AR8619** — Cable management arm for use with sliding shelves
- **AR8508BLK** — Horizontal cable side channel (18 in. to 30 in. adjustment) for routing cable front-to-back between the standard wide rack mounting rails or AR8603 and AR42428 horizontal cable managers
- **AR8016BLK** — Horizontal cable side channel (10 in. to 18 in. adjustment) for routing cable front-to-back between the standard wide rack mounting rails or AR8603 and AR42428 horizontal cable managers
- **AR8706** — Mounting rail brush strips for 30 in. wide enclosures (AR3x5x), qty. 6

NetShelter SX cable management

Overhead cable troughs and partitions

- **NetShelter enclosures feature the ability to integrate a system of troughs and partitions for routing power and data cable across the top of the enclosures**
- **Troughs and partitions reduce the need for expensive suspended cable tray systems**
- **Troughs and partitions install toollessly with snap-in tabs and have standard attachment points for cable ladder systems**
- **Enclosure troughs are shown here; for information on power and cooling troughs and partitions, see the Schneider Electric website**

1. **Power cable trough**
   - Supports power distribution cables
   - Provides separation from data cables
   - Data cables pass through underneath to front partitioned area
   - **AR8501** — Cable trough, 24 in. enclosures
   - **AR8507** — Cable trough, 30 in. enclosures

2. **Pass-through data cable partition**
   - Partitions the top of the enclosure into cable routing areas
   - Pass-through hole provides cable access into multiple cable areas
   - **AR8163ABLK** — Pass-through data partition, 24 in. enclosures
   - **AR8173BLK** — Pass-through data partition, 30 in. enclosures

3. **Solid data cable partition**
   - Partitions the top of the enclosure into cable routing areas
   - Solid face provides clean appearance at the front of the enclosure
   - **AR8162ABLK** — Solid data partition, 24 in. enclosures
   - **AR8172BLK** — Solid data partition, 30 in. enclosures

Check out Application Note #133: “Cable Trough, Ladder, and Partition Configuration Guide.”

4. **Cable ladders and accessories**
   - Cable ladders and attachment kits for routing power and data cabling overhead from rack to rack.

![Cable Ladder and Attachment Kits](image)

- **Cable Ladder 6 in. (AR8164AKIT)** — Ladder Corners Clamp (AR8461)
- **Cable Ladder 12 in. (AR8165AKIT)** — Ladder Angle Clamp (AR8462)
- **Alternate Mounting — Cable to Power Troughs**
  - **AR8506** — Ladder Stacking (AR8463)
- **Alternate Mounting — Ladder to Data Partitions**
  - **AR8177BLK** — Ladder Wall Termination (AR8465)
- **Ladder to NetShelter SX Roof**
  - **AR8165BLK** — Ladder Clamp Kit (AR8169)
- **Ladder Elevation Bracket**
  - **AR8168** — Ladder to Two-post Rack (AR8460)
Shelves and mounting hardware

Mounting accessories to aid in the installation of IT equipment and secure racks into position

Shelving
Fixed and sliding shelves to enable the mounting of tower units, monitors, and other equipment into the rack environment.

- AR8105BLK — Fixed shelf 50 lb.
- AR8122BLK — Fixed shelf 250 lb.
- AR8123BLK — Sliding shelf 100 lb.
- AR8128BLK — Sliding shelf 200 lb.
- AR8422 — Double-side fixed shelf for two-post rack
- AR8126ABLK — 17 in. sliding keyboard shelf
- AR8127BLK — 19 in. sliding rotating keyboard shelf
- AR8006A — Misc. equipment support rails for 24 in. wide enclosure

Bolt-down and stabilization
Stabilization plates and hardware to prevent tip-over in stand-alone rack applications and meet specific anchoring requirements.

- AR7700 — NetShelter SX stabilization plate to prevent tipping when sliding out equipment
- AR7701 — NetShelter SX bolt-down kit — meets IBC seismic requirements for moderate seismic zones
- AR7701-S — NetShelter SX bolt-down kit — meets IBC seismic requirements for high seismic zones

Miscellaneous mounting brackets
Variety of mounting brackets for mounting IT equipment.

- AR7711 — Zero-U multipurpose accessory mounting bracket for side mounting of 1U/2U products and rack PDUs
- AR8150BLK — 23 in. to 19 in. mounting adapter brackets for use with AR7510 23 in. EIA mounting rails

Hardware kits
Available for additional hardware needs or to accommodate equipment mounted in varying mounting options.

- AR8100 — M6 cage nuts and screws, qty. 32
- AR8400 — #12-24 screws, qty. 100
- AR8605 — #10-32 cage nuts, qty. 36

Rack components

Replacement doors, side panels, roofs
Standard doors, side panels, and roofs are available for all enclosure sizes. Check the enclosure product page options tab for a list of these rack components.

Specialty roofs, side panels, and accessories

- AR7252 — Networking roof for high-density cabling 30 in. wide x 42 in. deep
- AR7716 — Networking roof for high-density cabling 30 in. wide x 42 in. deep
- AR7215 — NetShelter AV enclosure top conduit access adapter
- AR7209 — Open roof support bridge for overhead troughs and partitions
- AR7305A — NetShelter SX pass-through side panel 42U x 42 in. deep
- AR7313 — NetShelter SX pass-through side panel 42U x 47.5 in. deep
- AR7315 — NetShelter SX pass-through side panel 45U x 42 in. deep
- AR7316 — NetShelter SX pass-through side panel 45U x 47.5 in. deep
- AR7375 — NetShelter SX pass-through side panel 48U x 42 in. deep
- AR7314 — NetShelter SX pass-through side panel 48U x 47.5 in. deep
- AR7714 — Replacement snap-in brush strips for SX roofs
- ACF501 — Roof fan for 24 in. wide x 42 in. deep enclosures, 120 Vac
- ACF502 — Roof fan for 24 in. wide x 42 in. deep enclosures, 208 – 230 Vac
- ACF503 — Roof fan for 30 in. wide x 42 in. deep enclosures, 120 Vac
- ACF504 — Roof fan for 30 in. wide x 42 in. deep enclosures, 208 – 230 Vac
- ACF505 — Roof fan for NetShelter AV 24 in. wide x 32.5 in. deep, 115 Vac
- AR8132A — Combination lock handle for NetShelter SX enclosures, qty. 2

Rails

Mounting rails
Vertical EIA rail mounting kits for different widths and depths.

- AR7510 — 23 in. EIA mounting rails for 42U x 30 in. wide enclosures

Recessed rail kits
Intermediate mounting rails for supporting shallow depth equipment.

- AR7503 — 42U x 24 in. wide
- AR7504 — 48U x 24 in. wide
- AR7508 — 42U x 30 in. wide
- AR7578 — 48U x 30 in. wide

Rails

Intermediate mounting rails for supporting shallow depth equipment.

- AR7503 — 42U x 24 in. wide
- AR7504 — 48U x 24 in. wide
- AR7508 — 42U x 30 in. wide
- AR7578 — 48U x 30 in. wide

Rails

Intermediate mounting rails for supporting shallow depth equipment.

- AR7503 — 42U x 24 in. wide
- AR7504 — 48U x 24 in. wide
- AR7508 — 42U x 30 in. wide
- AR7578 — 48U x 30 in. wide
## NetShelter two- and four-post open frame racks

The NetShelter two- and four-post open frame racks offer a quality solution for the economical installation of rack-mountable equipment, where security at the individual rack level is not required. Open frame racks provide unobstructed airflow and fast, easy access to installed equipment, and can be paired with high-density vertical cable managers for maximum cable volume. The two-post rack offers cost-conscious customers a simple solution for supporting networking equipment and patching applications. The four-post rack offers more strength and features for supporting servers and networking equipment. Recent improvements to the four-post racks increase cable management options and flexibility.

### AR201 — two-post rack
- Self-squaring design
- 45U mounting spaces (84 in. tall)
- Black finish
- 6061-T6 structural grade aluminum
- Weight capacity (static load) 750 lb.

### AR203A/AR204A — four-post rack
- Threaded #12-24 holes (AR204A)
- Square holes for cage nuts and server mounts (AR203A)
- New design for easier assembly
- Steel construction
- 44U mounting spaces (84 in. tall)
- Black finish
- Multiple toolless mounting points for hook-and-loop fasteners (AR8621) or toolless cable management rings (AR7540)
- Multiposition ruck PDU mounting bracket (AR8652)
- Reversible stabilization plates
- Grounding inserts
- Weight capacity (static load) 2,000 lb.

### VDIM33174 — 4U overhead patch frame
- 19 in. frame
- Weight capacity up to 33 lb.
- Attaches to cable ladder and wire basket trays for network patching overhead row

## Open frame racks

### Performance vertical cable managers: Accessories and applications

- **AR8444** — Cable slack spools
  - Toollessly mounts on back panel
  - Provides smooth radius support for cable slack
- **AR8621** — Toolless hook-and-loop cable managers
  - 18 in. straps for large data cable bundles
  - Various mounting positions on back panel of vertical cable managers
- **AR8680** — Cable divider/organizer
  - For creating multiple cable pathways within vertical cable managers
  - Includes tie-off features for securing cabling using toolless hook-and-loop cable managers (AR8621)

### Four-post rack accessories

- **AR8652** — Rack PDU mounting bracket
  - Mounts on sides as a spacer when using vertical cable managers between two racks
  - Mounts on face of vertical rails, perpendicular for single rack applications
  - Designed to toollessly mount Schneider Electric rack PDUs
- **AR8450A** — Trough and partition adapter
  - Provides mounting locations for overhead trough and partition cable management system

### Vertical rack PDUs and patching

- Cable management backplate (single-sided) or midspan brackets (double-sided) allow:
  - Toollessly mount, front or rear, multiple vertical rack PDUs
  - 19 in. patch panels can be installed vertically (double-sided only)
NetShelter CX enclosure

Soundproofed “server room in a box,” which allows for IT deployment wherever and whenever it is needed

Conveniently deploy servers and networking equipment in a quiet, ventilated, secure, and office-ready cabinet. The NetShelter CX is a cost-effective alternative for when there is no space, budget, or time for a traditional server room or wiring closet.

Standard features

Floor space requirements: Enclosures are designed to be placed directly against a wall. Clearance of 8 inches on both sides of the cabinet is essential for normal operation.

Cooling system: One ultra-low-noise exhaust fan module, 1.2 kW maximum recommended total thermal load (or 4,100 BTU/hr.). One module with AR4018A, two with AR4024A, and three with AR4038A.

Noise reduction: 18.5 dBA broadband noise reduction, measured 39 in. from the front of the enclosure (HP® and Dell® servers were used as noise source in noise reduction measurements).

Mobility: Four heavy-duty castor-type wheels provide front-to-back motion for stability.

Rear and side access: Detachable rear side panels, left and right, for equipment installation and maintenance access.

Cable management: Two cable ports allow passage into and out of the enclosure for power and networking cables.

Ventilation system — The ultra-low-noise exhaust fan module has a 800 W maximum recommended total thermal load.

Cable management — Two cable ports allow passage into and out of the enclosure for power and networking cables.

ATR100 — 13U x 23 in. wide x 25 in. deep, wall-mount enclosure with vented sides and glass front door

AR101HD — 13U x 23 in. wide x 25 in. deep, wall-mount enclosure with vented front door and glass front door

AR8206ALBK — Roof fan tray 120 V

AR8207BLK — Roof fan tray 208/230 V

AR8359 — Castor kit for NetShelter WX

AR8355 — Ventilation plates for NetShelter WX

NetShelter CX Mini enclosure

The CX “Mini” is a purpose-built tower server enclosure aimed at small, non-IT spaces such as home office, school, AV, small office, and remote office environments.

NetShelter CX accessories — Mini

- AR4000MV/12U — 12U vertical mounting rail kit for NetShelter CX Mini. Converts basic enclosure to a 12U rack enclosure.
- AR4000MV-FR — Fixed rail kit for NetShelter CX Mini provides two horizontal mounting ledges for equipment placement. Must be used with AR4000MV12U vertical mounting rail kit.
- AR4601 — Bolt-down kit — two L-shaped brackets secure the enclosure to the floor.

NetShelter CX Mini features

- Ventilation system — The ultra-low-noise exhaust fan module has a 800 W maximum recommended total thermal load.
- Cable management — Two cable ports allow passage into and out of the enclosure for power and networking cables.
- Mobility — Four office-style castors.
- Access — A detachable and lockable rear panel ensures security and quick access to the equipment inside.
- Integrated power strip — Includes three IEC outlets and two sets of three regional-specific equipment cords. The power strip is removable to allow installation through the rear, without power-off equipment.

NetShelter CX accessories — 18, 24, 38U

- AR4601 — Bolt-down kit — two L-shaped brackets secure the enclosure to the floor.
- AR4602 — Allows use of NetShelter SX handles including combination lock handles (AR8132A) and NetBotz Rack Access PX-HID (AP9361).
- AR4701 — Dust filter pack for 38U. Includes AR4702 and AR4703.
- AR4702 — Dust filter pack for 18 and 24U.
- AR101 — 12U x 24 in. wide x 20 in. deep, wall-mount enclosure with vented sides.
- AR112 — 12U x 24 in. wide x 20 in. deep, wall-mount enclosure with vented door.
- AR8213 — Roof fan tray 120 V as an accessory for the AR106, AR109, AR112 only.

NetShelter seismic enclosure

Enclosure designed for essential facilities and carrier applications in seismic environments. Meets NEBS test standard GR-63-CORE Zone 4 at 1,000 lb. equipment load.

- AR2144BLK — 42U x 24 in. wide x 42 in. deep, NEBS enclosure, with sides.
- AR2145BLK — 42U x 24 in. wide x 42 in. deep, NEBS enclosure, without sides.

NetShelter WX wall-mount enclosure

Support remote patching and networking applications in a convenient wall-mount rack with an easy-install rear-hinged section and reversible doors.

- AR100 — 13U x 23 in. wide x 25 in. deep, wall-mount enclosure with vented sides and glass front door
- AR101HD — 13U x 23 in. wide x 25 in. deep, wall-mount enclosure with vented sides and full front door
- AR8206ALBK — Roof fan tray 120 V
- AR8207BLK — Roof fan tray 208/230 V
- AR8359 — Castor kit for NetShelter WX
- AR8355 — Ventilation plates for NetShelter WX
Rack cooling and airflow management

**Air sealing**
Covers open rack space to prevent air recirculation and reduce bypass airflow to improve cooling efficiency.
- AR8136BLK — 1U toolless snap-in blanking panel, 10 pk
- AR8136BLK200 — 1U toolless snap-in blanking panel, 200 pk
- AR8108BLK — 1U standard metal blanking panel, 2 pk
- AR8110BLK — 1U, 2U, 4U, 8U, blanking panel kit
- AR7708 — NetShelter SX Air Recirculation Prevention Kit for closing gaps and pass-through holes between side panels and equipment mounting rails
- AR7731 — NetShelter SX external air sealing kit seals external openings at roof and floor, 10 pk

**KoolLok® raised floor grommets**
Seal a variety of cutouts in a raised floor environment to reduce cold air leakage and improve cooling efficiency.
- AR7720 — Integral raised floor grommet (enclosed) for new installation, 10 pk
- AR7730 — Surface-mount raised floor grommet (split) for existing cables, 10 pk
- AR7740 — Extended raised floor grommet to cover length of floor tile, 10 pk

**Side airflow cooling**
Support cooling for small and large networking switches mounted within networking enclosures.
- AR7742 (42U)AR7747 (48U) — Side airflow solution for Cisco Nexus 7010 attaches to sides of 47.5 in. deep enclosures
- AR7715 — Side airflow duct kit mounts inside 30 in. wide enclosures for Cisco 6509, 6513, 9509, 9513, and 9550 series switches
- AR7725 — Side airflow duct kit mounts inside 30 in. wide enclosures for Cisco Nexus 7000 series switches
  - Consists of two duct assemblies that act as diverters, utilizing the existing fan power of the switch
  - Systems of baffles are located throughout the enclosure to mitigate exhaust air from recirculating back into the air intake

**Ducting only**
Vertical Exhaust Duct (VED) for NetShelter SX is an easy-to-install, low-cost cooling option that can increase the efficiency of the attached cooling system.
- AR7751 — VED for 24 in. enclosures, short range
- AR7752 — VED for 24 in. enclosures, tall range
- AR7753 — VED for 30 in. enclosures, short range
- AR7745 — VED for 30 in. enclosures, tall range
- AR7755 — Overhead cable extension for VED 24 in.
- AR7765 — Overhead cable extension for VED 30 in. VEDs also available in white.
  - Roof fan trays available for 42 in. deep enclosures, see “Rack components” on page 13.

**Rack fan panel**
2U rack-mounted fan panel and accessories.
- ACF600 — 2U rack fan panel
- ACF601 — Rack fan panel temperature controller
- ACAC40000 — 2U vent panel with temperature display
- ACAC40001 — 2U vent panel

**Rack power distribution**
Global power densities are increasing and becoming more unpredictable. Whether deploying rack power distribution in a wiring closet, server room, or data center, Schneider Electric offers a consistent way to meet a variety of power density applications up to 22 kW per strip.

Schneider Electric Rack PDUs have sufficient power and receptacle outputs to meet high kW loads in a minimal amount of space. Their ease of installation accelerates speed of deployment and reduces installation costs. With advanced rack power distribution, Schneider Electric offers real-time remote load monitoring of connected equipment and individual outlet power control for remote power recycling.

**Manage power at the rack level with pinpoint control**
- **Basic Rack PDU** — Entry-level power distribution for rack-mount equipment
- **Metered Rack PDU** — Advanced power distribution provides real-time remote monitoring of connected loads
- **Switched Rack PDU** — Premium power distribution allows remote control of individual outlets and monitoring of aggregate current consumption
- **Metered-outlet** — Provides real-time remote monitoring of each individual outlet
- **Rack Automatic Transfer Switch** — Provides redundant power to single-corded equipment

For a comprehensive list of Rack PDUs, download the latest pocket guide.

**Rack PDU local display**
Load indicator LEDs
- **Serial connection: local configuration and out-of-band management**

**User interactive display**
Network management: access, configure, and receive warnings from remote locations via Web, SNMP, and Telnet

**Environmental monitoring port**
For external temperature/humidity probe

**CAN In/Out ports**
For future functionality

**Local USB port**
For firmware updates and downloading data/event logs (not to be used as serial port)

The Metered and Switched PDU offers advanced features to meet today’s data center demands

- **Web interface**
- **Telnet, SNMP**
- **Security**
- **Schneider Electric StruxureWare® for Data Centers**

For a comprehensive list of Rack PDUs, download the latest pocket guide.

For a comprehensive list of Rack PDUs, download the latest pocket guide.

For a comprehensive list of Rack PDUs, download the latest pocket guide.

For a comprehensive list of Rack PDUs, download the latest pocket guide.
Optimize rack space. Maximize system visibility.

Rack LCD Consoles include a keyboard, mouse, 17 in./19 in. LCD console, and optional integrated 8/16 port analog KVM switch (17 in. model only), all in a compact 1U design. This compact design allows a KVM switch to be mounted in the rear of the Rack LCD Console or eliminate the need for a separate KVM switch altogether by choosing a Rack LCD Console with integrated 8/16 port analog KVM switch. The console is easily installed and minimizes support and maintenance costs, ensuring lower cost of ownership. The ultra-thin LCD screen, touch pad technology, and easy-to-install single user rack-mount kit combine to form a high-quality, streamlined solution built for server management. The Rack LCD Consoles can be used in a variety of IT environments, from computer rooms to large data centers.

- Ultra-thin 17 in. or 19 in. LCD monitor
- Integrated keyboard with number pad
- USB port for external media
- Space-saving 1U design
- Touch pad mouse
- Easy to install

Access your servers across the room or across the world.

Schneider Electric Rack KVM switches empower IT administrators through both local and remote POST- and BIOS-level access and control of connected servers. Schneider Electric Analog, CAT-5 Analog, and IP KVM switches help reduce total cost of ownership — minimizing space, hardware, electricity, and cabling by leveraging just one keyboard, monitor, and mouse for multiple servers. Improve return on investment and flexibility through enterprise-level scalability with centralized management. IT infrastructure management in data centers, computer rooms, and remote branch offices is now possible with greater control and peace of mind with Rack KVM switches.

LCD monitors and KVM switches

Security and environmental monitoring for network closets to data centers

NetBotz

Surveillance:
- Leverage NetBotz®, Pelco™ IP and CCTV camera technology to monitor IT assets remotely

Management capabilities:
- Alarming allows alerts, multiple notification methods, scheduling, graph and video attachments, and escalation
- StruxureWare Central available for centralized monitoring of multiple appliances

Environmental monitoring:
- Wide range of sensor support to monitor the health of your IT assets
- Temperature, humidity, leak, door, smoke, vibration, dew point, airflow, dry contact, 4 – 20 mA, and 0 – 5 V

Access control:
- Control and manage access privileges for NetShelter SX enclosures over the network

High-level security option for NetShelter SX

NetBotz rack access PX — HID system AP5661
- Configure individual HID proximity cards for access or schedule access to equipment for maintenance purposes
- Control and manage rack access privileges from a Web browser
- Perform audit trails on rack access
- Receive alarm notification when the rack is in a compromised security state

NetBotz rack access pod 170 — NBPD01171
- Rack access pod connects via A-Link and mounts in the rack basement, minimizing space usage
- Rack access solution scales easily and can be used with any NetShelter SX brand enclosures
## NetShelter enclosure and rack accessory compatibility chart

<table>
<thead>
<tr>
<th>SKU</th>
<th>Description</th>
<th>AR3100</th>
<th>AR3105</th>
<th>AR3107</th>
<th>AR3107</th>
<th>AR3150</th>
<th>AR3155</th>
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<tbody>
<tr>
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<td>NetShelter SX 42U Vertical PDU Mount and Cable Organizer</td>
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For a comprehensive list of compatible accessories, visit the www.schneider-electric.com product pages and view the "Options" tab to search through the available options. Or download the latest compatibility chart.
Online resources

Help me choose
Visit Rack PDU selector

See for myself
Visit Rack PDU test-drive sites

NetShelter SX multimedia product demo
Receive a guided tour of the NetShelter SX enclosures — at your convenience. Free online multimedia demo walks you through ease-of-use, power distribution, cooling, and cable management benefits. Click here.

Additional resources
Click here to download White Paper #44:
“Improving Rack Cooling Performance Using Airflow Management Blanking Panels”

Click here to download Application Note #133:
“Cable, Trough, Ladder, and Partition Configuration Guide”

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