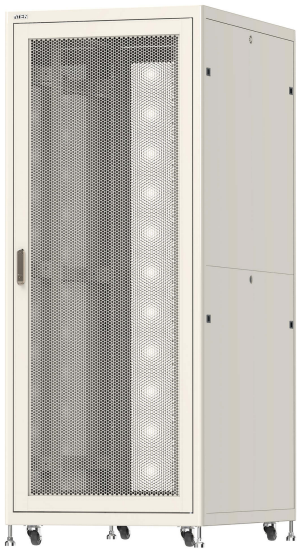
Simply Better Connections

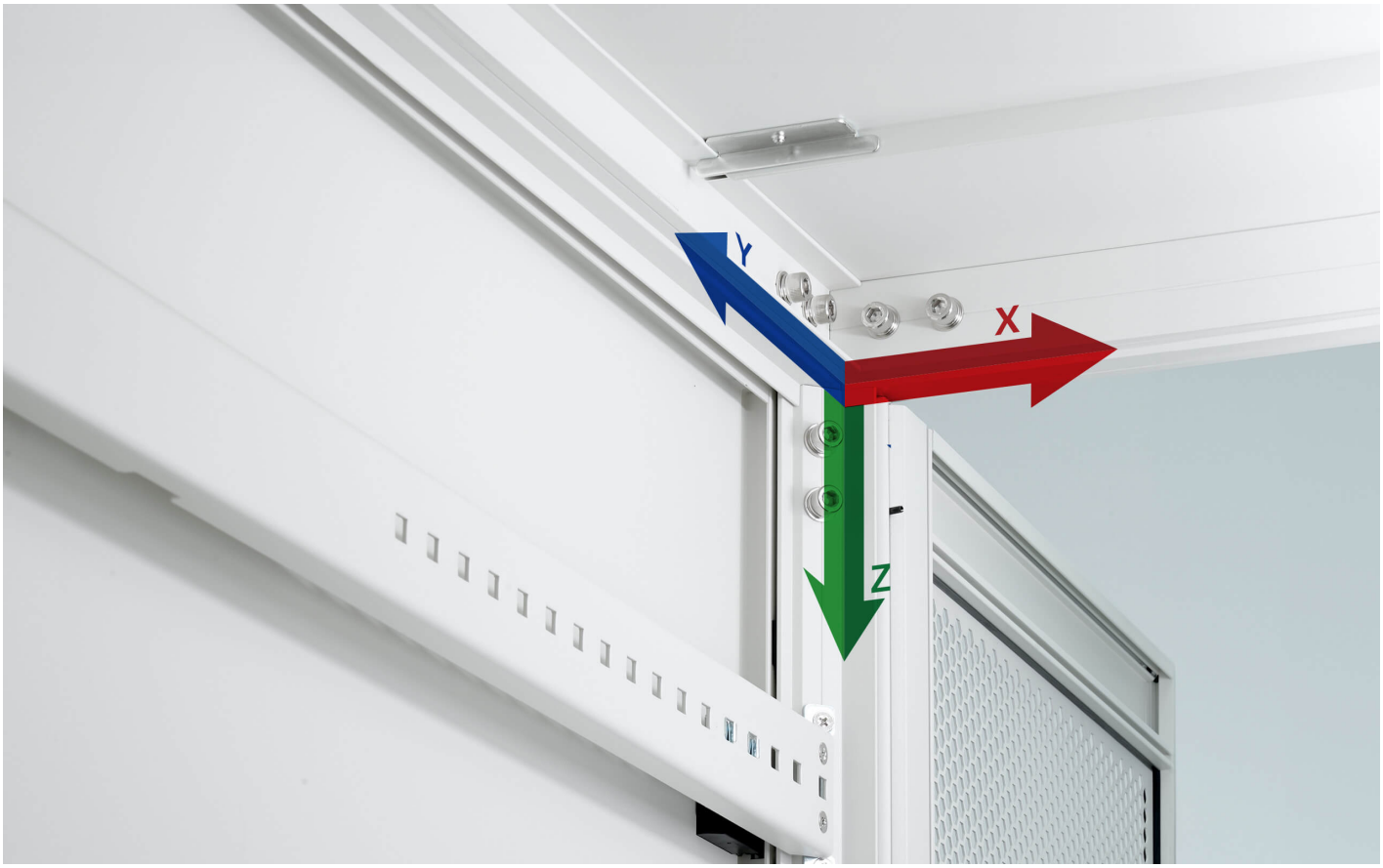
RC1800

42U Network/Server Rack with Perforated Front and Rear Doors



Reputable for their sturdiness and reliability, ATEN racks are accredited with various certifications to demonstrate their reliability in securing critical IT equipment within date centers and server rooms. In addition to UL and CE certifications, ATEN racks are also EIA/ECA-310-E compliant.

The intelligent industrial design of the rack also yields higher energy savings and reduced carbon emissions, further promoting ESG efforts.



3-Axis Rack Frame for Sturdy and Secure Build

The heavy-duty construction along the XYZ axis supplies the robustness required to form the frame of the rack and the requisite sturdiness.

Intelligent Design of Quick Release Side Panels

Advanced industrial design ensures simple and effortless installation and safety measures in place to protect the installer’s safety, and easy cabling.

Perforated Front and Rear Doors for Optimized Airflow Management

The perforated design for the front and rear doors improves rack airflow and energy efficiency, generating a ventilation rate that exceeds 66%. The advanced cooling design aligns perfectly with contemporary carbon reduction and energy conservation demands.

Modularized Plates for Top and Bottom Covers for Customized Needs

Both the top and bottom covers have modularized plates that can be re-arranged based on your deployment needs. Optional fan modules can also be added and placed based on cable positioning.

Flexible Cable Management

The plastic finger duct cable manager located on the side secures the cables to ensure they are organized and safely protects cables from potential deterioration and breakage.

Applications

Whether it be server rooms or data centers, the server rack can be counted on to secure your most valuable assets.

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Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly

First Name *

Last Name *

- Country *

Company *

Email *

Phone Number *

- Customer Type *

Job Title *

Features

With more than 30 years of experience in R&D and manufacturing cabinet products, ATEN can tailor exclusive products for its customers based on their needs. Our cabinet products, all of which are extremely popular, have been certified by UL and by CE. All ATEN's rack products are EIA/ECA-310-E compliant. Our high-quality cabinets have multiple patents numbered: M377678, M385174, and M513193.

All ATEN's network/server racks are designed for energy saving and carbon reduction, all of which feature heavy-duty construction, intelligent design, safety, and robustness. ATEN rack solutions are ideal for any kinds of data center builds and their cable management.

- ## Heavy-duty Construction
  - The frame of the rack consists of three parts: extruded 6063 T5 aluminum columns, beams and beam-to-column connections that are made of aluminum-alloy (ADC12) with t-shaped brackets. For added robustness, beams and columns are connected to beam-to-column connection by M8 screws
  - Static loading capacity up to 1800kg and dynamic loading capacity up to 1000kg
  - Certified MIL-STD-167/MIL-STD-810G vibration test (Military Standard)
  - Certified GR-63-CORE Zone4 seismic test (Equivalent to earthquake of magnitude eight)
  - All ATEN's standard rack products are EIA/ECA-310-E compliant
  - Adjustable mounting rails are made from cold-rolled steel (SPCC). The materials are triple bent so as to enhance its loading capacity

- ## Airflow Management
  - The components of the structure are designed for ergonomics with high-precision quality and for optimizing airflow management to conserve energy and reduce carbon emissions
  - Perforated doors for massive front-to-rear airflow provide a ventilation rate above 66%. (The distance cross the corners of the hexagonal mesh is 2mm, and the length of its side is 5mm.)
  - Quick-release side panels offer simple and effortless installation
  - Multi-module fan unit (2-fan unit / 4-fan unit/ 6-fan unit) can effectively manage the hot air from operating equipment. These are UL compliant and can help increase electrical safety

Intelligent Design

- Multi-stage quick-release top and bottom covers allow cables to easily pass through the rack
- U positions are numbered on adjustable mounting rails to help IT experts recognize the position to quickly install equipment
- M16 leveling feet secure the racks in place by adjusting the leveling feet even if the racks are set up in a server room with non-raised floors
- Lifting eye-bolts (M16 thread) at the top of the rack, which can be used to hang and move the rack when an elevator is not available
- The high-strength horizontal support rails can disperse the weight of IT equipment, making the racks robust and safe
- Anti-seismic connection design (such as side baying connectors or top baying connectors) offers safe connections in between racks and in between racks and the building

Certifications

- UL Certified and CE Certified
- Compatible with the latest specification of EIA/ECA-310-E
- Certified MIL-STD-167/MIL-STD-810G vibration test (Military Standard)
- Certified GR-63-CORE Zone4 seismic test (Equivalent to earthquake of magnitude eight)
- Qualified for a static load test of 1800kg

Includes

- Server rack enclosure frame × 1 pc
- Perforated front and rear doors with aluminum frame (with door lock and keys) × 2 pcs
- Removable upper and lower side panels × 2 sets
- Roof and floor panels × 1 set
- Caster × 4 pcs
- Leveling feet × 4 pcs
- M5 Mounting Screw × 50 pcs
- Cage nut × 80 pcs

*For more rack door type available to the rack, please refer to the data sheet

Specifications

Function	RC1800	RC1801	RC1802
Physical Properties			
Rack Height (U Spaces)	42U	42U	42U
Internal Height	1869 mm	1869 mm	1869 mm
Overall Height, Casters Included	2045 mm	2045 mm	2045 mm
Overall Height, Casters excluded	1965 mm	1965 mm	1965 mm
Overall Depth	1000 mm	1100 mm	1200 mm
Overall Width	800 mm	800 mm	800 mm
Color	Black (RC1800B) / White (RC1800W)	Black (RC1801B) / White (RC1801W)	Black (RC1802B)/ White (RC1802W)
Enclosure Frame	AL 6063T5	AL 6063T5	AL 6063T5
19″ EIA Rails	SPCC / SPHC	SPCC / SPHC	SPCC / SPHC
Roof and Floor Panels	SPCC / SPHC	SPCC / SPHC	SPCC / SPHC
Door Type	Perforated Front Door with Alu. Frame Perforated Rear Door with Alu. Frame	Perforated Front Door with Alu. Frame Perforated Rear Door with Alu. Frame	Perforated Front Door with Alu. Frame Perforated Rear Door with Alu. Frame
Side Panel Type	Lockable Side Panels - Split	Lockable Side Panels - Split	Lockable Side Panels - Split
Weight Loading (Static)	1800 kg	1800 kg	1800 kg
Weight Loading (Dynamic)	1000 kg	1000 kg	1000 kg

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