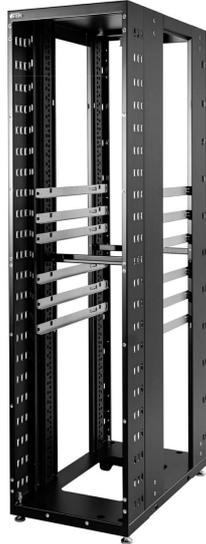# RC8100

48OU ORV3 Standard Rack

With over 30 years of experience in rack design and manufacturing, ATEN holds multiple patents (e.g., M377678, M385174, M513193) and certifications including UL (North America) and CE (Europe). All ATEN racks are manufactured in Taiwan and strictly comply with the EIA / ECA-310-E standards. From robust chassis structures to intelligent accessories, ATEN racks fully satisfy the demanding energy management and security requirements of modern data centers and IDCs.

Designed for high-performance server technologies such as AI servers, virtualization servers, and network storage servers, the ORV3 Rack complies with the Open Rack V3 Base Spec developed by the Open Compute Project (OCP). Available in 48 OU (RC8100) heights with a 21-inch internal width, the rack supports installation of 48V Bus Bars and Power Shelf power modules to meet modern data center needs.

Features

- **Superior cooling performance for stable server operation:** Engineered according to advanced ORV3 open rack standards, enhancing airflow and ensuring stable, high-performance server operation
- **Supports 48V Bus Bar and Power Shelf modules for reliable power supply:** Precisely designed chassis supports 48V Bus Bars and Power Shelf power modules*, ensuring stable power delivery for high-performance servers
  *Optional Power Shelf Support Bracket available (Model: RA8200)
- **Flexible installation space with 48 mm OU height:** Taller than the traditional 44.45 mm OU, providing more room for high-performance or advanced equipment installation
- **21-inch internal width for versatile equipment compatibility:** Supports 21-inch ORV3 equipment as well as legacy 19-inch EIA devices* for greater flexibility
  *Optional 19-inch EIA Adapter Brackets available (2 RU: RA8300 / 23 RU:RA8400)
- **Convenient cable management with top cable entry ports:** Simplifies cable routing and keeps the data center neat and organized
- **Quick-release removable side panels for flexible airflow control:** Side panels can be easily installed or removed by one person to manage airflow as needed
- **Adjustable leveling feet ensure stable installation on uneven floors:** Height can be fine-tuned to compensate for floor irregularities, securing stable rack placement
- **Bottom cable entry ports for flexible cable routing:** Facilitates cable management from the rack's base
- **Robust load capacity for stable operation:** Meets ORV3 standards with static load capacity up to 1,600 kg and dynamic load capacity up to 1,400 kg, ensuring reliable support under all conditions

Optional Accessories

- Two-piece removable side panel kit
- 1 OU fixed blank panel
- ORV3 IT Gear Rails
- Power Shelf support bracket
- 19-inch EIA Rail Adapter (2 RU, 23 RU)
- Anti-tilt bracket

Supported Components

- 48V Bus Bar
- Power Shelf power modules

Standard Inclusions

- ORV3 Standard Rack ×1
- Middle horizontal bars ×2
- Caster set × 4
- Leveling feet × 4

Specification

Physical Properties	
Rack Height (U Spaces)	48OU
Internal Height	2334 mm
Overall Height, Casters Included	2480 mm
Overall Height, Casters excluded	2430 mm
Overall Depth	1068 mm
Overall Width	600 mm
Color	Black (RC8100B)
Enclosure Frame	SPCC / SPHC
Roof and Floor Panels	SPCC / SPHC (Floor panel excluded)
Weight Loading (Dynamic)	1600 kg
Weight Loading (Static)	1400 kg