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Professional server racks for data centers are designed to securely house IT equipment, optimize airflow, and support scalable, high-density infrastructure. Types of Server Racks

- Open Frame Racks:** Provide easy access and excellent airflow, ideal for equipment that requires frequent maintenance or high ventilation.
- Enclosed Racks / Cabinets:** Fully enclosed with doors and side panels for security, dust protection, and controlled airflow.
- Wall-Mounted Racks:** Space-saving solutions for small server rooms or network closets.
- Sliding Racks:** Allow easy access to equipment with sliding mechanisms, useful for maintenance in tight spaces.
- High-Security Cabinets:** Include combination locks, restricted access, and ventilated thermostatic systems for sensitive equipment.

Standard Dimensions and Specifications

- Width:** Standard racks are 19 inches (483 mm) wide, compatible with most rack-mounted equipment.
- Height:** Measured in rack units (U), typically ranging from 1U to 48U, with 42U (about 6 feet or 1.8 meters) being most common.
- Depth:** Usually between 24 inches (610 mm) and 48 inches (1,219 mm), with 36 inches (914 mm) being standard.
- Load Capacity:** Professional racks support heavy equipment, with static loads up to 4,000 lb (1,814 kg) and dynamic loads around 3,000 lb (1,361 kg) in some models.

Key Features

- Cooling and Airflow:** Integrated ventilation, fans, and compatibility with in-row or dedicated cooling systems to maintain optimal temperatures.
- Cable Management:** Vertical and horizontal cable managers, lashing panels, and toolless installation options to reduce clutter and improve efficiency.
- Security:** Lockable doors, restricted access panels, and high-security enclosures for sensitive data.
- Scalability:** Modular designs allow expansion for high-density deployments and future growth.
- Customization:** Adjustable heights, widths, depths, and accessories to fit unique data center requirements.

Vendors and Solutions

- AZE Systems:** Offers floor-standing racks, wall-mount enclosures, and customizable cabinets with robust materials and airflow...

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