

Edge Data Centers



Edge data center in Arlington, Texas

Edge Data Centers

A small-scale data center situated at the "**edge**" of a network, physically closer to where data is generated and consumed. The primary goal is to minimize the distance data has to travel, thereby reducing **latency**.

- **Location & Infrastructure:** Smaller facilities located near end users or data sources.
- **Power & Cooling:** Lower capacities; often rely on smaller, energy-efficient cooling solutions.
- **Security:** Physical security appropriate for smaller facilities, often with remote monitoring.
- **Connectivity:** Local, high-speed networks to reduce latency.
- **Purpose:** Support latency-sensitive applications, IoT, and local data processing.
- **Deployment:** Modular and scalable; quick setup and expansion
- **Proximity:** Located closer to users and devices.
- **Low Latency:** Designed for applications that can't tolerate delays.

- **Smaller Footprint:** Typically smaller than traditional data centers, often a single rack or a few racks.
 - **Distributed Network:** They are part of a larger, distributed network, not a standalone entity.
-

Revision #2

Created 15 September 2025 12:27:05 by Max

Updated 15 September 2025 12:33:10 by Max