

Single-cabinet micro-module server room dimensions

Article Overview

A single-cabinet micro-module server room typically occupies a footprint of around 0.72-2.4 m² with a height of 2-2.2 meters, depending on the design and integrated systems.

Typical Dimensions

- o Footprint: Single-cabinet micro-modules can have a compact footprint of approximately 0.72 m² for mini data centers (INVT iSmart series) or up to 2.4 m x 2.0 m for single-row modular setups with aisle containment (ZTT Micromodule) .
- o Height: Cabinets are generally 2000 mm to 2200 mm tall, accommodating standard 42U or 47U racks .
- o Width and Depth: Cabinet widths are typically 600-800 mm, with depths around 1200 mm. Integrated micro-modules may include additional space for cooling and power systems, slightly increasing the overall module width .

Cabinet and IT Load

- o Cabinet Capacity: Single cabinets can support 3-7 kVA for mini data centers or up to 6-10 kVA in high-density modular setups .
- o IT Load: Depending on the configuration, a single-cabinet module can handle IT loads ranging from up to 120 kW in larger integrated modules, though typical single-cabinet deployments are much lower, around 3-7 kW .

Deployment Considerations

- o Cooling: Single-cabinet micro-modules often integrate proximal air-cooling or in-row air conditioners, with capacities from 25-45 kW for larger modules, or smaller fans for mini data centers .
- o Power and UPS: Integrated UPS and power distribution units are included in most micro-modules, supporting plug-and-play deployment without additional infrastructure .
- o Installation: These modules can be installed on concrete or raised floors, and are designed for rapid deployment, often pre-commissioned in the factory .

Summary

A single-cabinet micro-module server room is highly compact, typically 2.4 m long x 2.0 m wide x 2.0-2.2 m high, with a single rack of 42-47U, integrated cooling, power, and monitoring systems. It is ideal for offices, branch sites, or small IT rooms, offering rapid deployment, energy efficiency, and modular scalability .

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A single cabinet is a complete system, suitable for various complex scenes (dust, narrow space, no

Common server rack sizes are 19-inch width, heights like 42U or 48U, and depths from ~24" to 48". Choose size

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