

Dimensions of a Tonga Single-Rack Micro-Module Server Room

Article Overview

A Tonga Single-Rack Micro-Module Server Room typically accommodates a standard 19-inch rack with a height of 42U, depth of 1000–1200 mm, and width of 600–800 mm, plus additional space for airflow, cabling, and maintenance.

Standard Rack Dimensions

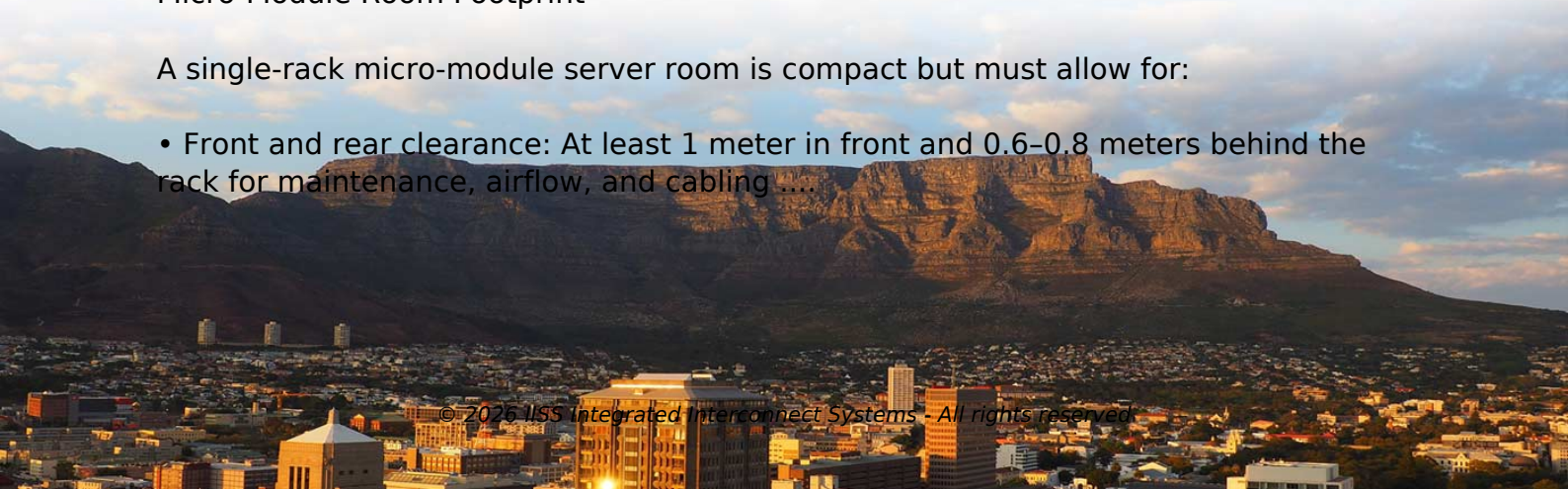
Most micro-module server rooms are designed around a single 19-inch rack, which is the industry standard for IT equipment . Key dimensions include:

- Height: Commonly 42U (73.5 inches / 1867 mm), though smaller 24U or 36U racks may be used if ceiling height is limited .
- Width: 19 inches (482 mm) between mounting rails; external cabinet width typically ranges 600–800 mm to allow for side clearance and cable management .
- Depth: 1000–1200 mm is recommended for servers with deep chassis, GPU systems, or storage arrays; shallower racks (600–800 mm) may suffice for switches and patch panels .

Micro-Module Room Footprint

A single-rack micro-module server room is compact but must allow for:

- Front and rear clearance: At least 1 meter in front and 0.6–0.8 meters behind the rack for maintenance, airflow, and cabling



Article Content

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Explore our comprehensive guide on 19-inch server rack sizes. Learn everything you need to know about rack space, mountable units, and optimizing

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Server Rack Sizes: The Complete Guide to Standard,

Below is a comprehensive, fully detailed guide covering all standard server rack sizes, form factors, height considerations, depth classifications, and

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Data Center Server Rack: The Ultimate Guide

Server rack dimensions define what equipment fits, how airflow moves, and whether the facility can structurally support the

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Sizing Racks For Your Server Room Design

When it comes to room design, it is vital to ensure you make the right choices in the selection of your server racks and cabinets. There are several topics to consider, all of which can

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Server Rack Size Guide | RAS

Before we discuss the normal server rack sizes, let's quickly establish what a server rack is. At their core, server racks are metal frameworks designed to hold and organize advanced equipment,

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Micro Data Center

Delta InfraSuite can be applied in micro datacenters under 50 square meters or with an IT load under 20kVA. It is suitable for regional or small business environment IT applications.

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What is a Server Rack? The Ultimate Guide to Sizes (U) & Types (2026)

Setting up a server room? We define "What is a server rack," explain Rack Units (1U, 42U), and compare Open Frame vs. Enclosed Cabinets.

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A Guide to Selecting the Right Server Rack Size

Server racks are essential in administration, and operation departments, server rooms, and even in our homes. Choosing the appropriate server rack can be tough, as you might be

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Supermicro Rackmount Servers

Supermicro's highly dense yet compact server designs provide excellent compute, networking, storage and I/O expansion. These servers utilize Supermicro optimized thermal designs to save energy,

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Server Room Requirements: How big should a server room be?

When designing a communications room the space required needs to take into consideration, the current requirements and expected overall requirements should the tenant space

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19-inch rack

Each module has a front panel that is 19 inches (482.6 mm) wide. The 19-inch dimension includes the edges or ears that protrude from each side of the equipment, allowing the module to be fastened to

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A Comprehensive Guide to Rack Space Measurements

Wherein we provide everything you need to know about rack space measurements when setting up your server environment inside a data center.

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Standard Rack Specifications, Dimensions, Layout Design

When planning a data center or upgrading a server room, one of the most common challenges enterprises face is a lack of understanding of standard rack specifications. Overlooking

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How to Design a Server Room: 6 Steps (with Pictures)

Set up hardware for storage. For space maximization, utilize cabinets and shelving to store the physical machinery and other computer inventory in the

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Server Rack Sizes & Dimensions Explained: The Ultimate Guide to

Discover essential information on server rack sizes and dimensions, including heights, widths, and depths, in our ultimate guide. Optimize your setup today!

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Server Rack Sizes & Dimensions Guide 2026

Common server rack sizes are 19-inch width, heights like 42U or 48U, and depths from ~24" to 48". Choose size based on equipment type, cooling, space, and future growth.

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How Much Space Does A Server Rack Need

Discover the ideal server rack size for your needs. Find out how much space you should allocate to ensure optimal functionality and scalability.

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Decoding Server Rack Dimensions: U, Width, Depth & Air

Explore the essential aspects of server rack dimensions, including U, width, depth, and air management for effective data center organization.

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Server Room Design Best Practices

Our latest post outlines 10 best practices that help ensure your server room design leads to safe, efficient, and reliable on-prem hosting.

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A Design Guide and Checklist For Server Room Facilities

A design guide and checklist for server rooms including server racks, cooling, critical power, cabling and fire suppression systems.

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What Size Server Rack Do I Need? Rack Calculator and Standard Sizes

An undersized rack limits airflow and future expansion, while an oversized rack can waste valuable floor space. To make this easier, we've included an interactive server rack size

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Small Business Server Room Design Guide

The document outlines the specifications and best practices for server room design, including size, physical layout, power requirements, cooling, security, cabling, and risk mitigation strategies. It

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Data Center Server Rack Size: A Beginner's Guide

The right server rack size is essential for the efficient operation and management of a data center. However, the optimal size of the Rack is tough to choose. This guide will give you an

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Rack Mounting FAQ

As can be seen in the illustration below, the 19" x 1.75" of a 1U rack slot are the defined maximum outer dimensions for a single rack position, and the maximum size of a 1U module or blank filler panel.

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Small Server Room Design: Main Tips

Server room design for small business → Helpful tips from a server hardware manufacturer. How to design a server room layout for a small office. Read more →

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Data Center Rack Standards

When considering a Data Center Migration, it's important to consider all of the components being migrated. Here, we take a in-depth look at Server Racks. 19-Inch Rack Solutions Overview A 19-inch

Contact Us

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