1U Standard Chassis Wall-Mounted for Island Use



Overview

Find your 1u chassis easily amongst the 31 products from the leading brands (Kontron, ELMA, SUPERMICRO, ...) on DirectIndustry, the industry specialist for your professional purchases.

Key Takeaways

A 1U wall-mounted chassis is a compact, space-saving enclosure designed for mounting computer or network components on walls or isolated surfaces, supporting efficient airflow, modular installation, and industrial-grade durability.

Overview

A 1U chassis refers to a standard rack unit height of 1. 75 inches (44. 45 mm), commonly used in networking, industrial, and server applications.

Wall-mounted versions are ideal for island or standalone installations, where floor or rack space is limited, allowing devices to be securely mounted on walls or partitions while maintaining accessibility and ventilation.

Key Features

Form Factor and Compatibility: Supports Mini-ITX, Micro-ATX, or standard 19" modules, depending on the model. Some industrial 1U chassis can accommodate CompactPCI boards or AdvancedMC modules for telecom and network applications. Material and Durability: Typically constructed from SGCC steel or anodized aluminum, providing robust protection and vibration resistance for industrial environments.

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Cooling and Ventilation: Equipped with dual or multiple fans, airflow channels, and ventilation slots to maintain optimal operating temperatures for high-density electronics. Mounting Options: Can be mounted on walls using brackets or DIN rails, and some models include handles for easier installation and transport. Power and Connectivity: Supports redundant AC or DC power supplies, PoE options, and configurable Ethernet or serial ports, making it suitable for enterprise, telecom, or industrial IoT deployments.

Expansion and Access: Many 1U wall-mounted chassis provide PCI slots, hot-swappable drive bays, and modular backplanes, allowing flexible configuration and maintenance without disassembly.

Applications

Industrial Networking: Housing media converters, network switches, or control modules in factories or remote sites. Telecom and Data Centers: Compact deployment of CompactPCI or AdvancedMC modules for network infrastructure. Home or Office Media Centers: Mini-ITX or Micro-ATX systems for space-efficient computing setups.

Island Installations: Ideal for locations where traditional racks are impractical, such as wall-mounted kiosks, labs, or small server rooms. Example ModelsOCS34-M Compact MINI-ITX Case: SGCC steel, dual 80mm fans, Micro-ATX support, versatile industrial use.iConverter 1-Module Industrial Chassis: Supports 12–36VDC or 20–60VDC, hot-swappable modules, DIN rail or wall mounting. Versamet 1U Rack Enclosures: 19" front panel, handles, PCB mounting kits, and universal mounting options for island or wall use.

Conclusion

A 1U wall-mounted chassis provides a space-efficient, durable, and flexible solution for mounting computing or networking equipment in environments where traditional racks are not feasible. When selecting a chassis, consider module compatibility, cooling requirements, power options, and mounting flexibility to ensure it meets the specific needs of island or wall-mounted installations.

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Article Content

1U chassis

Find your 1u chassis easily amongst the 31 products from the leading brands (Kontron, ELMA, SUPERMICRO, ...) on DirectIndustry, the industry specialist for your professional purchases.

Amazon : 1u Rack Mount

ICC 1U Fiber Optic Rack Mount Enclosure - 3 Slots for LGX Compatible Adapter Panels or Cassettes, Supports up to 72 Fibers, Fits 19-Inch Racks, Secure Fiber Management Solution, ICFORE31RM

1U Chassis

The 1U chassis support multiple configurations include SATA hard drives, rackmount chassis and redundant power supply that fulfill server-grade IPC standard. The 1U chassis series with the cooling

Amazon : 1u Rack

Explore a wide range of 1U racks for 19-inch networking and server equipment. Find wall-mount, shelf, and bracket options to fit your needs.

RackSolutions 1U-2U Wall Mount Server Rack

Our Wall Mount Rack allows you to mount your server in 1U-2U of space horizontally or vertically. 19” rack mount equipment can be mounted to a wall,

RackSolutions 19 inch 1U-4U Vertical Wall Mount Rack

This vertical wall mount rack works with standard 19" server, networking, and telecommunications equipment from Dell, HP, IBM, Apple, Sun, Intel, Cisco,

1U | Rackmount Chassis

This rackmount chassis with great ventilation is especially designed for space-constrained applications. Configure your own 1U Rackmount classis to your specifications.

1U vs 2U Servers Explained – Rack Mount Guide 2025

A 1U rack mount case is sleek, compact, and often a pain to work inside. You''ll probably have to use low-profile coolers and carefully route cables

Server Case (Chassis): 1U, 2U, 3U & 4U | Rackmount PC Cases

Shop B&H for our huge inventory of Server Case from top brands like iStarUSA, Supermicro and In Win. Fantastic prices and legendary customer service.

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What is an attractive 1u chassis for home office : r/homelab

I need help to replace a freestanding 12u rack with a custom build into a wood cabinet in my home office - specifically options for the server chassis. My ideal chassis are a 1u Nano and 1u PC from G2

19 Inch Rack Mount Enclosures | Metcase USA

19" Rack Mount Enclosures Modern aluminum 19” enclosures for rack mounted electronics Comprehensive range of modern and stylish rack mount enclosures which conform to DIN 41494 and

Server Chassis: The Main Case For Your System

2. What is the Difference Between Rackmount and Tower Server Chassis? Server chassis come in two primary form factors: rackmount and tower. Each has its own advantages and is

Understanding Rack Units (U) in Server Racks [July 2026]

A “Rack Unit” (U) is a standard height measure for mounting equipment in a server rack. One U = 1.75 in (44.45 mm). This article explains definition, planning, installation tips, and trends.

What Is a 1U Server Rack Size? Exact Dimensions & Mounting Guide

A 1U server rack measures exactly 1.75 inches (44.45 mm) in height and fits standard 19-inch racks. Learn why equipment must stay *under* that limit, how depth varies, and how to verify

1U Chassis Images

1u (1 3/4") Heavy–Duty Rack–Mount Chassis Introducing the STRONGBOX® 1 3/4″ high (1 rack unit) by 19″ wide, heavy-duty rack–mount chassis. SBx–1 chassis

Rack unit

Definition The rack unit size is based on a standard rack specification as defined in EIA -310. The Eurocard specifies a standard rack unit as the unit of height; it also defines a similar unit, horizontal

Server Rack Size Guide: Choosing the Right Rack for

Find the perfect server rack size for your data center. Understand rack units (1U, 2U, 4U), dimensions like 1.75 inches/44.45 mm, and available

Versamet 1U Rack Mount Enclosures | Metcase USA

Versatile 1U rack mount enclosures to DIN 41494 and IEC 60297-3 Modern aluminum 19" rack mount cases in two standard colors, gray or black Attractive

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