Nepal Data Center Micro-Module System



Overview

Micro Module Data Center Solution Modular configuration intelligent monitoring system, with LCD display, could real-time monitoring module micro-environmen.

Key Takeaways

Nepal offers advanced micro-module and modular data center solutions through providers like Ncell, Subisu, and Data World, delivering scalable, energy-efficient, and Tier III/IV-compliant infrastructure.

Overview of Micro-

Module Data Centers in NepalMicro-module or modular data centers are compact, pre-fabricated, and scalable units designed to provide enterprise-grade computing, storage, and networking capabilities with high energy efficiency and rapid deployment. These solutions are particularly suitable for organizations seeking flexible, green, and resilient infrastructure without the need for large, traditional data center facilities. Key Providers and Solutions1.

Ncell Data Center

Operates three Tier III facilities in Lalitpur (Nakkhu IDC), Pokhara, and Hetauda, offering geographic redundancy and disaster recovery for enterprises across Nepal. Uses Oracle Private Cloud Appliance (PCA) X10, providing on-premises cloud infrastructure compatible with Oracle Cloud APIs. Features modular containerized POD design, enabling scalability, resilience, and rapid deployment.

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Implements a three-layer security architecture covering physical, service, and compute enclaves, with biometric access and encryption-at-rest. 2. Subisu Modular Data CentersNepal's first large-scale modular data center in Baluwatar, Kathmandu, designed for eco-friendly, energy-efficient operations.

Modular design allows compatibility, scalability, and waste/recycle management, integrating green building technologies to reduce carbon emissions. Offers turnkey solutions including design, installation, commissioning, and post-implementation support, suitable for government, financial, and enterprise clients. 3.

Data World

Operates Tier II

I certified, purpose-built data centers with 14+ strategic locations nationwide. Facilities are optimized for AI/ML workloads, high-density racks, and low-latency connectivity. Provides carrier-neutral colocation, private cloud, and enterprise-grade services, with modular and scalable infrastructure to grow with business needs.

4.

Bichuten Tier IV Hyperscale Data Center

Upcoming Tier I

V hyperscale facility in Chobhar and Birgunj, expected to start operations in August 2026. Designed for 99. 995% uptime, scalable from 240 kW to 5 MW, and powered entirely by hydroelectricity, promoting sustainable operations.

Collaboration with Google Cloud, AMD, and Micron ensures global standards and advanced capabilities.

Advantages of Micro-

Module Solutions

Scalability: Easily expand capacity by adding modular units. Energy Efficiency: Compact design reduces power and cooling requirements; some facilities use renewable energy. Rapid Deployment: Pre-fabricated modules allow faster setup compared to traditional data centers.

Resilience: Supports disaster recovery and geographic redundancy. Customizability: Can be tailored for enterprise, government, or telecom requirements. ConclusionNepal's micro-module and modular data center landscape is rapidly evolving, with Tier III and Tier IV facilities offering scalable, secure, and energy-efficient solutions.

Providers like Ncell, Subisu, Data World, and Bichuten deliver options suitable for enterprises, government institutions, and cloud service providers, supporting Nepal's growing digital economy and the vision of Digital Nepal.

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Article Content

Micro Module Data Center Solution

Modular configuration intelligent monitoring system, with LCD display, could real-time monitoring module micro-environment; Integrated alarm management, report management, energy efficiency

Scalable Green Modular Data Center in Nepal

We took a significant leap forward by introducing and Installing Nepal''s largest first Modular Data Centre, located in the heart of the city,

Data Center Solution in Nepal | Modular Data Center

Our modular data center solution is designed to provide you with a scalable and customizable infrastructure that can be rapidly deployed and easily adapted to meet your specific requirements.

Micro Data Center

Delta''s modular datacenter solution offers a datacenter environment that provides safe equipment operations within the racks, and supports the development and

Cloud Himalaya | Tier 4 Datacenter Nepal | Fully Redundant

Cloud Himalaya provides a range of services tailored to diverse IT needs: VPS: Scalable and efficient hosting with dedicated resources. Colo: Secure server housing in data centers for optimal reliability.

Times Global: Nepal Data Center

Nepal Data Center is a modern and state-of-the-art data center in Nepal. We are fastest growing data center in Kathmandu, Nepal. Nepal Data Center is located

Maximizing Performance in Compact Spaces with PROSE Micro Data

Compact data center infrastructure from PROSE comes in modular cabinets that scale easily. Start with one unit and expand by cascading racks — no major renovations needed. Engineered for continuous

Data Center Co-Location

Our co-location facilities are available at two primary seismic-resistant data center sites and support full racks, partial racks, and caged suite deployments according to your business requirements.

NEA''s cutting-edge data center comes into operation

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KATHMANDU, June 12: The Nepal Electricity Authority (NEA) has launched a top-of-the-line data center meeting global standards. Situated alongside the load dispatch center in Syuchatar, Kathmandu, this

Modular data center

Modular data center systems consist of purpose-engineered modules and components to offer scalable data center capacity with multiple power and

Top Datacenters in Nepal: A Comprehensive Guide

Importance of Datacenters in Nepal Datacenters play a crucial role in the digital landscape of Nepal. They serve as the backbone for storing and managing vast amounts of data.

Nepal Data Centers & Services | PDF | Data Center | Cloud Computing

This document discusses data centers in Nepal, providing details on several private data centers in the country. It lists the Data Hub, Data Space, Ohm Data Center, and Eastlink Technology data centers,

WorldLink Launches Largest Data Center of Nepal in Chandragi

WorldLink launches Nepal''s largest Tier-3 & Edge-certified data center in Chandragiri, featuring 3.5MW IT power, 520 racks, and carrier-neutral connectivity.

Nepal Data Centers

List of all Data Centers located in Nepal. Find any certified, power consumption, cooling redundancy, services and features for data centers in Nepal.

Empowering Nepal''s Digital Economy: The Role of Data

The diverse viewpoints presented offer a comprehensive portrayal of Nepal''s digital landscap e, emphasizing the intricate nature of its transformation

Kathmandu Data Centers

Kathmandu Data Centers Below you will find locations of 9 data centers in Kathmandu, Nepal. To find other data center locations and colocation, cloud or connectivity providers in Nepal, please click here.

Is Nepal ready for data centres?

With the right investments in storage and system balancing, this could position Nepal as an attractive destination for environmentally conscious

Modular Data Centers: When They Work, and When They Don''t

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Modular data centers offer fresh opportunities for the industry, but that doesn''t mean they are right for every occasion.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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