

Laos Certified Edge Data Center IP65



Overview

Laos Data Centers Do you need to procure colocation, cloud, connectivity or other data center services in Laos or other locations?

We can help you navigate.

Key Takeaways

IP65-rated edge servers in Laos provide ruggedized, outdoor-capable computing for 5G, AI, and smart city applications, with local deployment options through providers like LaoDC. IP65 Edge Server Overview IP65-rated servers are designed for harsh outdoor environments, offering dust-tight protection and resistance to water jets from any direction, making them ideal for edge computing near cell sites, smart city infrastructure, or pole-mounted installations. These servers typically feature: High-reliability components: DDR4/DDR5 ECC memory, NVMe SSDs, and PCIe expansion slots for flexible workloads.

Rugged enclosures: IP65 certification ensures protection against dust and water, while some systems include heaters and heat exchangers for extreme temperatures (-40°C to 50°C). Compute performance: Intel Xeon D or 2nd Gen Xeon Scalable processors provide low-latency, high-performance processing for AI, 5G, and real-time analytics. Remote management: Many systems support virtualization, containerized workloads, and remote monitoring for unattended outdoor deployments.

Applications IP65 edge servers are suitable for: 5G RAN and IoT networks: Low-latency processing at the network edge. Smart city infrastructure: Traffic management, surveillance, and environmental monitoring.

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I inferencing: Real-time analytics and machine learning at the edge. Telecom and industrial deployments: Pole-mounted or wall-mounted installations in remote or outdoor locations. Local Deployment in LaosLaoDC, based in Vientiane Capital, offers professional data center services that can host edge servers or provide dedicated and virtual servers on-site.

Their facilities include: Redundant fiber rings and multiple upstream providers for network reliability. Redundant power sources and emergency diesel generators, with solar power integration for sustainability. Hardware support from industry-standard suppliers like APC, Cisco, DELL, and Supermicro.

This makes LaoDC a suitable partner for deploying IP65-certified edge servers in Laos, combining ruggedized hardware with local data center infrastructure for high availability and low-latency edge computing.

Key Considerations

When deploying IP65 edge servers in Laos: Confirm IP65 certification and environmental compliance for outdoor use. Evaluate power and cooling requirements, especially for pole-mounted or remote sites. Ensure network connectivity with redundant fiber or wireless links.

Consider remote management and security features, including intrusion detection and lockable enclosures. By combining IP65-rated edge servers with local data center services like LaoDC, organizations in Laos can achieve robust, low-latency, and reliable edge computing for modern applications.

Article Content

Laos Data Centers

Do you need to procure colocation, cloud, connectivity or other data center services in Laos or other locations? We can help you navigate the market, through our many years of experience and deep

Supermicro Adds Outdoor Edge System Family with IP65 Enclosure

The company added an IP65-rated enclosure to its Server Building Block architecture, based on Intel® architecture CPUs, delivering modular servers that can be custom-ordered to meet specific network

About the Edge Data Center Certification

The OIX Edge Standard ("OIX-3" or "Edge "Standard") establishes the technical criteria for Edge locations to be certified. The Edge Standard consists of both physical and operational requirements.

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Certifications for data centres

Since 2021, AtlasEdge customers have deployed AI, cloud and mission-critical workloads in our 2N facilities, using liquid-to-chip or air-cooled designs. All new builds run on 100% renewable energy.

Data Center Site Selection Experts Consulting Laos LA

Our colocation site selection services help find the ideal data center space by evaluating various options and analyzing colocation space to identify the best fit for our clients' needs.

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We are the leading Edge Data Center provider experts bringing speed, agility and security to your business and customers. Contact EdgeConneX experts today.

Data Centers in Vientiane, Laos

Explore data centers in Vientiane, Laos. Compare colocation, network, and cloud services from top providers on Inflect.

Empowering Laos: How GDMS is Building the Nation's Digital Future

GDMS enables digital transformation in Laos with secure, scalable cloud-native solutions across two National Data Centers. Building Laos' digital future.

Supermicro Introduces - Outdoor Edge Systems - New Category of

Supermicro Introduces - Outdoor Edge Systems - New Category of 5G Telco, Intelligent Edge, and Streaming Servers for IP65 Cell Tower Deployments Ruggedized Servers Leverage Standard x86

Laotel :: ບໍລິການ Data Center On Cloud

DATA Center On Cloud Service Data Center On Cloud Starter vCPU 1 Core Mem (GB) 2 Disk (GB) 70 Backup on site 1 Copies 1 IP Public Bandwidth 50/100 Mbps Virtual Firewall NSX

Data Centers Laos

Get reliable data center in Laos with advanced infrastructure, top security, and exceptional performance to support your business operations.

Supermicro Introduces - Outdoor Edge Systems - New Category of

Super Micro Computer, Inc., a global leader in enterprise computing, storage, networking solutions, and green computing technology, is first-to-market with Outdoor Edge Systems - IP65

Laos Gets \$850,000 Containerized Data Center

The data center's servers are housed in shipping containers for easy transport and setup — an approach suited to developing countries like Laos.

Laos Data Centers

Data Centers in Laos - List of Colocation and Cloud data facilities in Laos. Get Quotes and find Specs, Photos, Videos etc.

Laos Moves Toward AI Future with Green-Powered Infrastructure Project

Vientiane, May 30, 2025, the National Data Center, under the Ministry of Technology and Communications, has signed a memorandum of understanding (MoU) with Silicon Tech Park (Lao)

Super Micro Computer, Inc.

Supermicro Introduces - Outdoor Edge Systems - New Category of 5G Telco, Intelligent Edge, and Streaming Servers for IP65 Cell Tower Deployments March 2, 2020 Download

Laos explores national data center development to drive digital ...

VIENTIANE, June 27 (Xinhua) -- Laos' Ministry of Technology and Communications is moving forward with plans to develop a national data center and government data exchange system, marking a

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

