

Fixed Micro-module Data Center in the Gulf Region



Article Overview

Fixed micro-module data centers in the Gulf are modular, prefabricated facilities designed for rapid deployment, high energy efficiency, and AI-ready workloads, with strong adoption in the UAE, Saudi Arabia, and Qatar.

Overview

Fixed micro-module data centers are prefabricated, standardized units that integrate power, cooling, racks, cabling, and management systems into compact modules. They are designed for rapid deployment, scalability, and high reliability, making them ideal for regions with growing digital infrastructure needs like the Gulf Cooperation Council (GCC) countries . These facilities support cloud computing, AI workloads, and enterprise IT services while optimizing space and energy usage.

Regional Market and Capacity

The GCC hosts 111 existing data centers and 72 upcoming facilities, with Saudi Arabia and the UAE leading in both capacity and number of facilities . Saudi Arabia is emerging as a hyperscale desert cloud hub, while the UAE is positioning itself as an AI mega-campus and interconnect node . Qatar focuses on sovereign-cloud solutions for finance and government sectors. Leading providers include Khazna Data Centers, Gulf Data Hub, and Saudi Telecom Company, which together account for over 50% of the region's IT power capacity .

Technology and Features

Modern fixed micro-module data centers in the Gulf incorporate:

Article Content

From Crude to Compute: Building the GCC AI Stack

The Gulf should leverage its existing coordination mechanisms through the GCC framework to establish from the beginning a clear

Gulf Data Hub | Middle East Data Center & Colocation Provider

Gulf Data Hub (GDH) is a UAE-based data center developer and wholesale colocation provider headquartered in Dubai Silicon

Data Center and Virtualization

Explore cutting-edge technologies to simplify your IT infrastructure with the Data Center and Virtualization Solutions from Ingram Micro.

THE MIDDLE EAST DATA CENTER BOOM

Recent data center market growth has been solid. Over the past three years (to 2023), nearly 40 new commercial facilities have

Modular Data Centers: An Ideal Solution for Digital Growth in the ...

Crucially, modular data centers provide a foundational element for datacenter expansion, offering adaptability and efficiency across

Datacenters drive economic diversification and digital transformation ...

The Middle Eastern Gulf Cooperation Council region is transitioning toward digitalization with a strong focus on technology

GDH || Gulf Data Hub

Gulf Data Hub is situated and expanding in the Middle East region. We are the first of our kind Data Center in the Middle East which

The Intelligent Micro Module, the Element of Intelligent Data Centers

The Intelligent Micro Module can provide simultaneous, efficient operations in order to provide the best green data center, the best

GDCA – Gulf Data Centre Association

Welcome to the Gulf Data Centre Association (GDCA) – a trade organisation designed to promote the data centre sector for

Middle East Data Centers

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

Modular Data Centers: An Ideal Solution for Digital Growth in the ...

Prefabricated data halls offer a modular and scalable solution for IT datacenter creation or expansion, providing an efficient

Modular Data Center Market Report: Size, Growth, Trends & Forecast ...

Modular Data Center Market size is projected to reach USD 97.02 Billion by 2032, growing at a CAGR of 14.92% from 2026 to 2032

Middle East Data Centers

Do you need to procure colocation, cloud, connectivity or other data center services in Middle East or other locations? We can help

Data and projections: May 2025

Chart of the quarter Data centre investments boom Data centres, once seen primarily as infrastructure for cloud computing and

Moro Builds the MEA Largest Tier III Sustainable Data Center

Moro Hub's Green Data Centre powered by FusionDC1000B with SmartLi UPS, which is a flexible, modular and scalable facility built

Gulf Data Hub: Offering the most promising range of Data Centre ...

Gulf Data Hub: Offering the most promising range of Data Centre solutions in the MENA region Established in 2014, Gulf Data Hub is

GCC Data Centers | Existing & Upcoming Data Centers in GCC Region

GCC hosts around 112 existing data centers, with countries like the UAE, Saudi Arabia having a strong presence in the region. The

GCC Data Centers | Existing & Upcoming Data Centers in GCC Region

Khazna Data Centers, Saudi Telecom Company, and Gulf Data Hub lead the GCC data center market, accounting for 50%+ of total

Data Centres The MENA Report

Gulf Data Hub has started construction of four facilities in the region. An initial 32MW of the planned 48MW is underway at the Dubai

Digital Infrastructure, Strategic Power: The Gulf's Data Centre Boom

NEOM's data infrastructure is also being designed to run entirely on renewable energy. With sustainability benchmarks increasingly

THE FUTURE OF DATA CENTRES IN THE GULF COOPERATION

The Gulf Cooperation Council (GCC) region is rapidly expanding its data centre infrastructure driven by national transformation

Contact Us

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