

Modular Data Centers

Production-ready infrastructure
in shipping containers

Why Modular Wins

Traditional data centers can't keep up with AI-era demands. Modular infrastructure delivers speed, flexibility, and efficiency.

	SYAALA MODULAR	TRADITIONAL DC
Deployment Time	8 weeks	18-36 months
Capital Cost	Lower per unit	\$20M+ upfront
Power Efficiency (PUE)	1.15-1.30	1.58 avg

How It Works

Complete data centers manufactured in ISO shipping containers. Fully integrated compute, power, and cooling systems arrive production-ready.

Week 1-4: Manufacturing in controlled factory

environment

Week 5: Full load testing before shipment

Week 6: Global shipping via standard freight

Four Product Lines

COMPUTE PODS

High-density GPU/CPU servers. NVIDIA H100/A100. Up to

POWER PODS

500kW - 5MW distribution. 98.5% efficiency. N+1

COOLING PODS

Advanced thermal management. PUE 1.15-1.30. Air, liquid, or

STORAGE PODS

Petabyte-scale arrays. NVMe, SSD, HDD tiers. Hot-swap drive bays.

Advanced Cooling Engineering

Supporting next-gen 1000W+ TDP chips

LIQUID DIRECT-TO-CHIP

Cold plates mounted directly on CPUs/GPUs. 40% more efficient than air cooling. Handles 500W+ per chip.

IMMERSION COOLING READY

Full server immersion in dielectric fluid. Supports

Built for AI Workloads

Training LLMs demands computational density traditional facilities can't match.

Up to 24 racks per 40ft pod

200kW per rack power density

4.8MW total in single container

NVIDIA H100/A100 certified

Who Uses Syaala

AI RESEARCH LABS

Deploy GPU clusters in weeks instead of years. Scale from prototype to production without moving buildings. Reconfigure as models evolve.

ENERGY COMPANIES

Co-locate with renewable generation sites. Turn stranded solar/wind power into computational value. Deploy in remote locations traditional DCs can't reach.

DEFENSE & GOVERNMENT

Air-gapped secure-by-design infrastructure. Rapid deployment to austere environments. NIST, ITAR, DoD compliant out of the box.

FINANCIAL SERVICES

Low-latency trading infrastructure at the edge. Disaster recovery sites operational in days. Regulatory-compliant data sovereignty.

Modular Yards

Pre-integrated multi-pod deployments. Mix compute, power, cooling, and storage pods to match your exact requirements.

Delivered fully shipping-ready with protective crating, environmental seals, and custom configurations. We handle logistics worldwide.

EDGE YARD

500kW • 4 pods

1-2 Compute + 1 Power + 1
Cooling. Regional deployment.
CDN nodes. Fits on single flatbed.

TRAINING YARD

2.5MW • 12 pods

6 Compute + 3 Power + 3
Cooling. LLM training clusters.
Research labs. Deploy in under 2
weeks.

HYPERSCALE YARD

10MW+ • 50+ pods

Custom pod mix. Tier-1
workloads. Multi-zone
architectures. Full redundancy.

Precision Manufacturing

Every pod manufactured in ISO-certified facilities with rigorous quality control

ISO 9001 CERTIFIED

Quality management systems. Documented

processes. Continuous improvement.

FULL BURN-IN TESTING

Every pod tested at full load for 72 hours before

shipment. Zero field failures.

COMPONENT TRACEABILITY

Complete supply chain tracking. Every part

serialized. Full warranty coverage.

Industry-Leading Efficiency

PUE 1.15-1.30 vs 1.58 industry average

WHAT IS PUE?

Power Usage Effectiveness. Lower is better. 1.0 is perfect.

WHY IT MATTERS

For 1MW IT load: Savings of 380kW = \$265K/year at PUE 1.20 vs 1.58.

HOW WE ACHIEVE IT

Direct liquid cooling. High-efficiency PDUs. AI-driven thermal management.

SYAALA

CONTAINERS

Modular data centers.
From order to operational in 6 weeks.

SCHEDULE A CONSULTATION

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