

WiLine AI Edge Zone Servers



A **WiLine Edge Zone** is a geographically localized, distributed compute fabric composed of three or more WiLine Edge POPs operating as a unified cluster across a short-distance metro footprint. Each Edge Zone is engineered to deliver enterprise-grade compute, storage, and networking within a **sub-30-mile radius**, ensuring deterministic low latency and proximity to enterprise workloads.

Unlike single-site appliance deployments, a WiLine Edge Zone is not constrained to a standalone three-node cluster. Instead, it is a **distributed architecture spanning multiple interconnected Edge POPs**, forming a resilient metro-scale cluster designed for high-performance edge computing.

AI inference and machine learning workloads, ultra-low latency industrial and automation processing.

WiLine Edge Cloud

Applications execute near the point of data generation, enabling real-time deterministic response times, short-path Backup-as-a-Service and disaster recovery within metro

proximity, and data residency compliance within defined geographic boundaries. Edge Zones are directly integrated with **WiLine SD-WAN Direct Connect**, enabling enterprises to aggregate secure connectivity, compute, and storage within the same low-latency topology.

This is not centralized hyperscale cloud extended outward. This is a **distributed metro cloud engineered for proximity, performance, and control**.

The **WiLine Edge Zone** model ensures that enterprise applications continue operating with predictable performance, even during upstream internet degradation, by maintaining processing and storage within the local metro fabric.

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Main benefits

Administrators can deploy workloads, enforce policy, monitor performance, and manage lifecycle operations across multiple metro Zones from a single control interface.

Data Sovereignty and Jurisdictional Control

This enables enterprises to enforce jurisdictional boundaries aligned with regulatory, contractual, or internal governance requirements.

Proximity-Optimized Virtual Desktop Infrastructure (VDI)

VDI workloads within a sub-30-mile radius combined WiLine SD-WAN Direct Connect, user sessions are terminated and processed within the local metro fabric. and branch locations.

Hyperscale-Grade Distributed Scalability Across 5,000+ Edge POPs

Architected to scale horizontally across more than 5,000 Edge POPs, enabling the creation of thousands of metro-distributed Edge Zones while maintaining unified operational control.

Capabilities

- Transparent, granular billing model covering compute, GPU consumption, storage capacity, snapshot retention, and network utilization.
- Live migration of virtual machines between hosts without service interruption during maintenance or hardware failure events.
- Centralized control plane enabling consistent lifecycle management, monitoring, and policy enforcement across distributed metro infrastructures.
- WiLine maintains physical resilience, capacity planning, hardware

Aggregated low-latency compute

Combining SDN with Direct connections enterprises can leverage in very close Edge Zone for low-latency demands

GPU-Enabled Edge Infrastructure

GPU resources near the data source, inference tasks can execute in real time without backhauling large datasets to distant cloud regions.

Integrated SD-WAN Connectivity

Enterprises can route application traffic directly into the nearest Edge POP through private L2/L3 paths, enabling policy-driven routing, segmentation, and traffic prioritization.

Distributed Storage Across POPs

Enterprises benefit from improved data durability, faster recovery times, and the ability to maintain data residency within defined geographic boundaries.

Manage All Zones from a Single Unified Platform

replacement, and network redundancy, allowing customers to focus exclusively on workload and application layers.

- Marketplace ecosystem for

rapid deployment of enterprise-grade services including virtual firewalls, SD-WAN gateways, secure access platforms, VDI

environments, backup services, observability tools, and AI inference frameworks.

WiLine Edge Cloud²

Hardware Specifications

Per Physical ARM and AMD64 Nodes

Device Type	Edge Gen1 - 12 CPUs	Edge Gen1 - 16 CPUs	Edge Gen1 - 20 CPUs
Architecture	ARMv9	AMD64	ARMv9
CPU	Cortex a720	AMD Ryzen AI Max 395	NVIDIA Grace Blackwell
vCPU	12C/12T	16C/32T	20C/20T
RAM (GB)	64	128	128
RAM BUS	DDR5 5500Mhz	DDR5 5500Mhz	DDR5 5500Mhz
Storage (TiB)	1	2	4
GPU	Arm G720 MC10	Radeon 8060S	NVIDIA Blackwell NVIDIA Blackwell Architecture with 5th Generation Tensor Cores, 4th Generation RT Cores
GPU Cores	10	40	
Network	2x 10GbE RJ45		2x 200 GbE QSFP 1x 10GbE RJ45
Dimensions	7.72"x7.44"x1.89"	7.72"x7.44"x1.89"	5.91"x5.91"x1.99"
Weigth	2.98 lbs	2.98 lbs	2.60 lbs
Input Power	65 W	320 W	240W
Approx Max Power Draw	30 W	160 W	140W
Acoustic Noise	35 dBa	42 dBa	35 dBa
INT8 NPU	45 TOPS	126 TOPS	~500 TOPS
Manufacturer	Minisforum	AMD / Minisforum	NVIDIA
Unit Cost USD	700	3,100	4400

WiLine Edge Cloud³