



Case Study

Modernize Distribution Yard Operations with KEEN

How Private 5G Cellular Unlocks Seamless
Connectivity for Mobile Scanners and Beyond

KEEN for Distribution Yards

KEEN delivers reliable, ultra-low latency connectivity to the most dynamic and chaotic areas of your distribution network —so you can track assets, automate operations, and eliminate downtime.



Private 5G Network Built for enterprises, performant, and dependable connectivity.

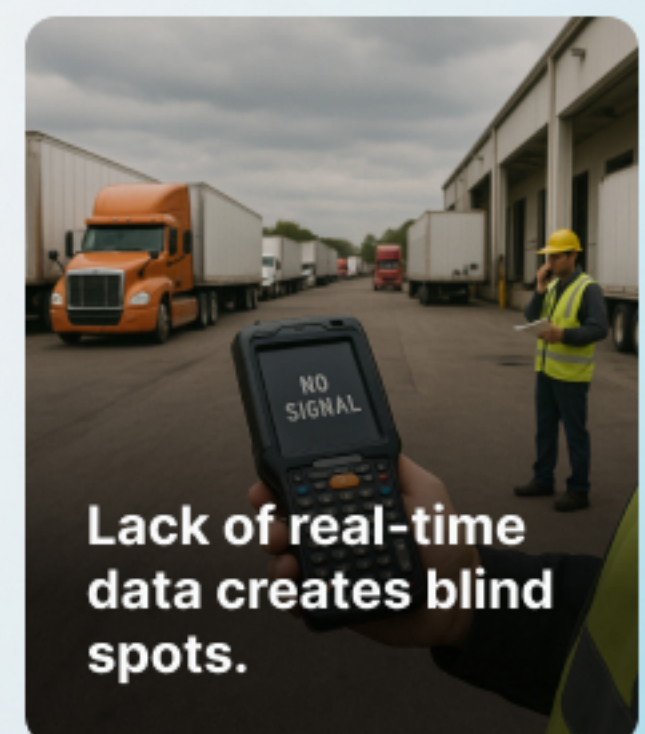
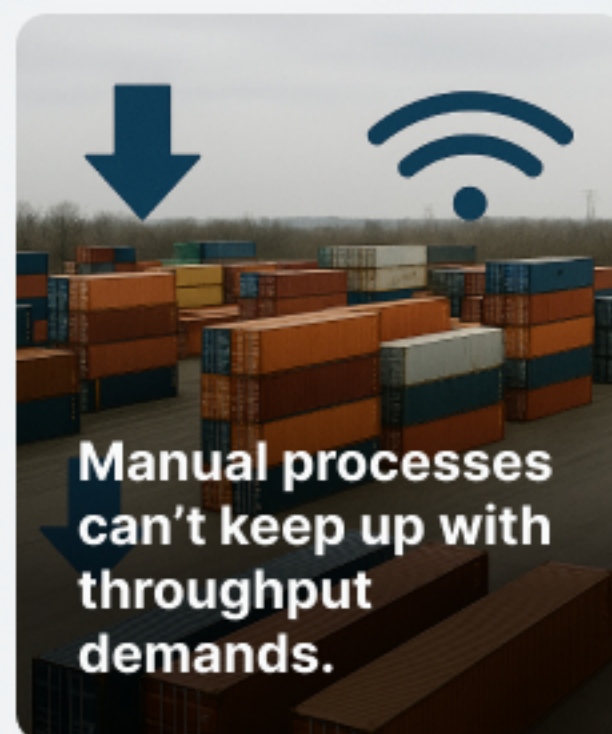
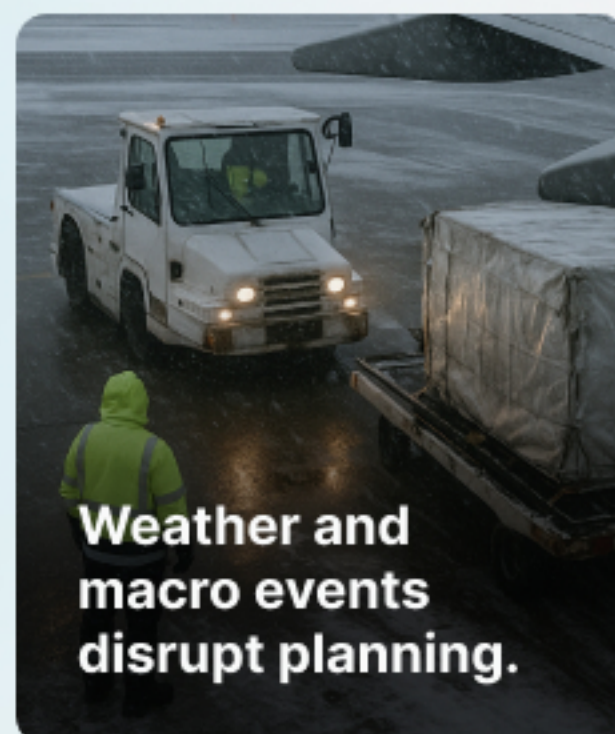
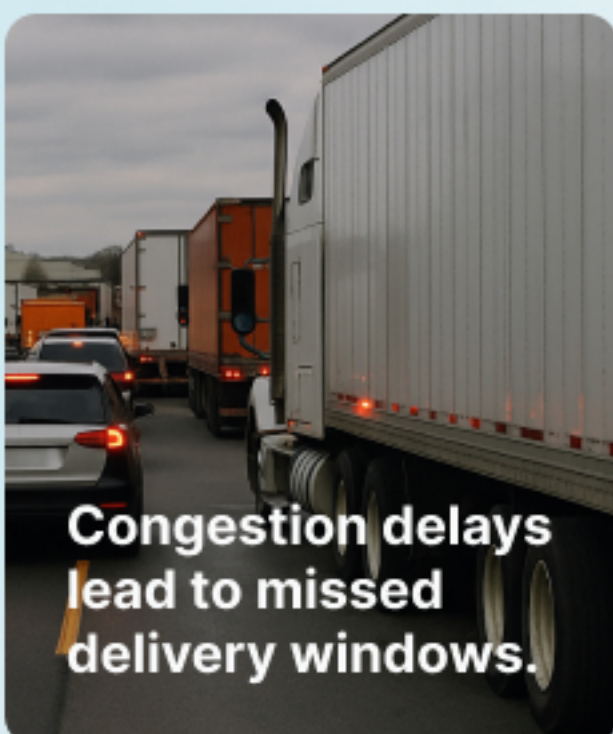
The Problem

Why Distribution Yards Are Under Pressure

Distribution yards are the heartbeat of modern supply chains — but many are still running half-blind. In these wide-open logistics hubs, seamless connectivity is what keeps shipments in motion. Yet, a single weak spot in connectivity can unravel everything.

When yard workers lose signal, they're forced to abandon handheld scanners and revert to manual checks — or worse, wait for systems to reconnect. Trucks stack up with nowhere to go. Drivers idle, burning fuel and patience. Bottlenecks snowball into missed delivery windows, late fees, and frustrated customers.

The reality of a disconnected yard:



One disconnected day can ripple through the entire supply chain

A Day in a Disconnected Yard

7:00 AM

Congestion Starts



A dead zone takes scanners offline at the main gate. Drivers wait while yard staff switch to paperwork. Every minute of downtime adds to the line of trucks.



10:00 AM

Missed Delivery Windows

Scanners keep dropping connection. Inbound loads get stuck, outbound trucks miss their windows. What should be smooth digital coordination turns into frustrated calls and extra fees.

1:00 PM

Weather Disrupts Plans



A sudden storm hits. With spotty connectivity, the team can't reroute trailers in real time. Wrong trailers end up at wrong docks; priority loads get left out in the rain.



3:00 PM

Manual Overload

Offline scanners force crews to use clipboards and radios. Manual logs fall behind, data gets mismatched, and trucks idle while mistakes get fixed.

6:00 PM

Blind Spots Surface



At shift change, supervisors find containers in the wrong places because scanner updates never synced. Loads are stranded, overtime piles up, and customers are left waiting.

Choosing the Right Connectivity

Wi-Fi vs. KEEN

Feature

Traditional Wi-Fi

KEEN (Private Cellular)

Coverage

Up to 150 Ft radius

Up to 1,500 Ft radius

Reliability

Prone to interference

Deterministic connectivity

Cost

High (fiber, hardware, maintenance)

Low (single AP + edge gateway)

Suitability

Indoors

Indoor, outdoor, dynamic, harsh environments

Wi-Fi Distribution Yard

- Requires fiber to be run through the yard
- Too expensive for most companies
- Limited coverage and poor performance



Private Cellular Warehouse

- Single outdoor AP covers a square mile
- Very low cost to deploy
- Handoff between public and private cellular



Key Benefits

Lower, predictable latency

Supports Android & legacy Telnet scanners

Stable sessions with fewer dropped connections

Improves safety, automation & real-time insights



Smart Yard Use Cases

- ✓ AI-powered security cameras
- ✓ Badge-based access systems
- ✓ Seamless dock & gate communication
- ✓ Asset tracking, sensors, environmental monitors



The All-in-One Private 5G Edge Network for Enterprise-Grade Connectivity

Built for the Demands of Modern Operations

What Makes KEEN Different?

- Instant Private 5G Network:**
All-in-one 5G Standalone (SA) edge gateway—no external core required.
- Mission-Critical Resilience**
Works without relying on cloud infrastructure. Optional satellite backhaul for full independence.
- Scalable & Flexible**
Available in rack-mounted or remote form factors, adapting to diverse operational needs.
- Edge Application Support**
Process data locally for ultra-low latency and real-time decision-making.
- One-Day Deployment**
Pre-configured, portable, and ready to go—up and running within 24 hours.



**Edge-native. Private.
Secure. Always On.**

KEEN redefines what's
possible with enterprise
wireless infrastructure.

Why KEEN?

In environments where Wi-Fi and cloud-reliant networks fail, **KEEN delivers deterministic connectivity**—essential for autonomous systems, security networks, smart logistics, and other edge-critical applications.

Get Started Today!

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W: www.khasmlabs.com



Ready to Modernize Your Yard?

KEEN brings enterprise-grade private 5G to your most challenging operations.

- Real-time scanner performance
- No more dead zones
- Edge intelligence you can trust

Get a demo | Talk to our team | Deploy in 1 day