Most warehouse Wi-Fi failures aren't product failures — they're design failures.

Common issues include:

Dynamic changes in inventory (materials and quantity) that impact RF performance.	2D design plans when 3D is required to support floor as well as rack/shelf level operations.
Warehouse layouts with challenging "RF canyons" to deliver coverage in.	Sub-optimal designs that do not support roaming for fast moving vehicles or devices.
RF coverage areas that require specialized AP and antenna solutions with strategic placement.	Outdated legacy client devices with uneven operation and demanding performance standards.

When wireless design cannot support real time scanning, telematics, or mobility, operations slow down and costs quickly rise.

RUCKUS Solves Warehouse Connectivity Differently

RUCKUS pairs industry-leading Wi-Fi performance with patented RF innovation and AI-powered optimization to deliver reliable connectivity that no standard alone can match.

Key Business Outcomes

RUCKUS increases warehouse operational efficiency:

- ✓ **Stronger network resiliency** even in harsh RF environments
- ✓ **Ubiquitous warehouse coverage** through advanced BeamFlex RF innovations
- ✓ **Improved worker productivity** with reliable scanning and low latency Wi-Fi
- ✓ **High performance telematics** for forklifts and mobile assets
- ✓ **Zero trust onboarding** with Cloudpath® secure access
- ✓ **Faster troubleshooting** powered by RUCKUS AI
- ✓ **Reliable AGV/AMR operations** supporting real time automation
- ✓ **Streamlined workflows** through mobile visibility and uninterrupted connectivity

Let RUCKUS design your next warehouse.

Tailored to your facility's layout, height, aisles, and inventory density so your network works from day one. Book a warehouse RF design review with your RUCKUS partner to maximize speed, accuracy, and efficiency.

RUCKUS® A BELDEN BRAND

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Connectivity for High Density, Multi-Level Warehouse Environments Demands Purpose-Driven Wireless

Warehouse environments are among the most challenging RF spaces anywhere. Large floorplans, 30–60 ft ceilings, dense multi-level racking (4–6 levels), and continuous movement from forklifts, scanners, cameras, AMRs, AGVs, and mobile workstations create unique Wi-Fi design complexity.

RUCKUS T670sn with BeamFlex® Adaptive Antenna Technology

Programmable sector antenna with narrow and wide beam patterns

- **Narrow sector (≈20-30°)** for long, high ceiling aisles
- **Wide sector (≈100-120°)** for open floor areas
- **Software defined coverage** adapts without physical repositioning
- **Interference reduction** in metal rack environments
- **High gain (up to 12.8 dBi)** for long range warehouse coverage

RUCKUS One AI Optimization for Warehouse Environments

AI-driven assurance, predictive detection, and AGV/AMR roaming improvements.

- ✓ Agentic AI predicts and resolves RF issues before they cause downtime
- ✓ Ensures seamless roaming for forklifts, scanners, and AMRs
- ✓ Reduces communication failures using AI driven Radio Resource Management
- ✓ Lowers access point power consumption up to 70% via RUCKUS IntentAI

Warehouse Wireless Design Guide

Warehouse environments demand reliable connectivity, seamless roaming, wide coverage, and low latency. With site surveys and industrial-grade APs managed by RUCKUS One, RUCKUS delivers.