

A Truly Private Network

HOW XCOM RAN Works

Private networking certainly has advantages for mission-critical communications, but is often required in challenging wireless environments, such as manufacturing floors, warehouses, and ports, which can detract from the efficacy of a private network.

XCOM RAN was developed to cut through radio frequency (RF) noise to synchronize connectivity and ensure that private networks are truly private.

Here's how it works

Unified Super Cell Architecture

Multipoint Radio System

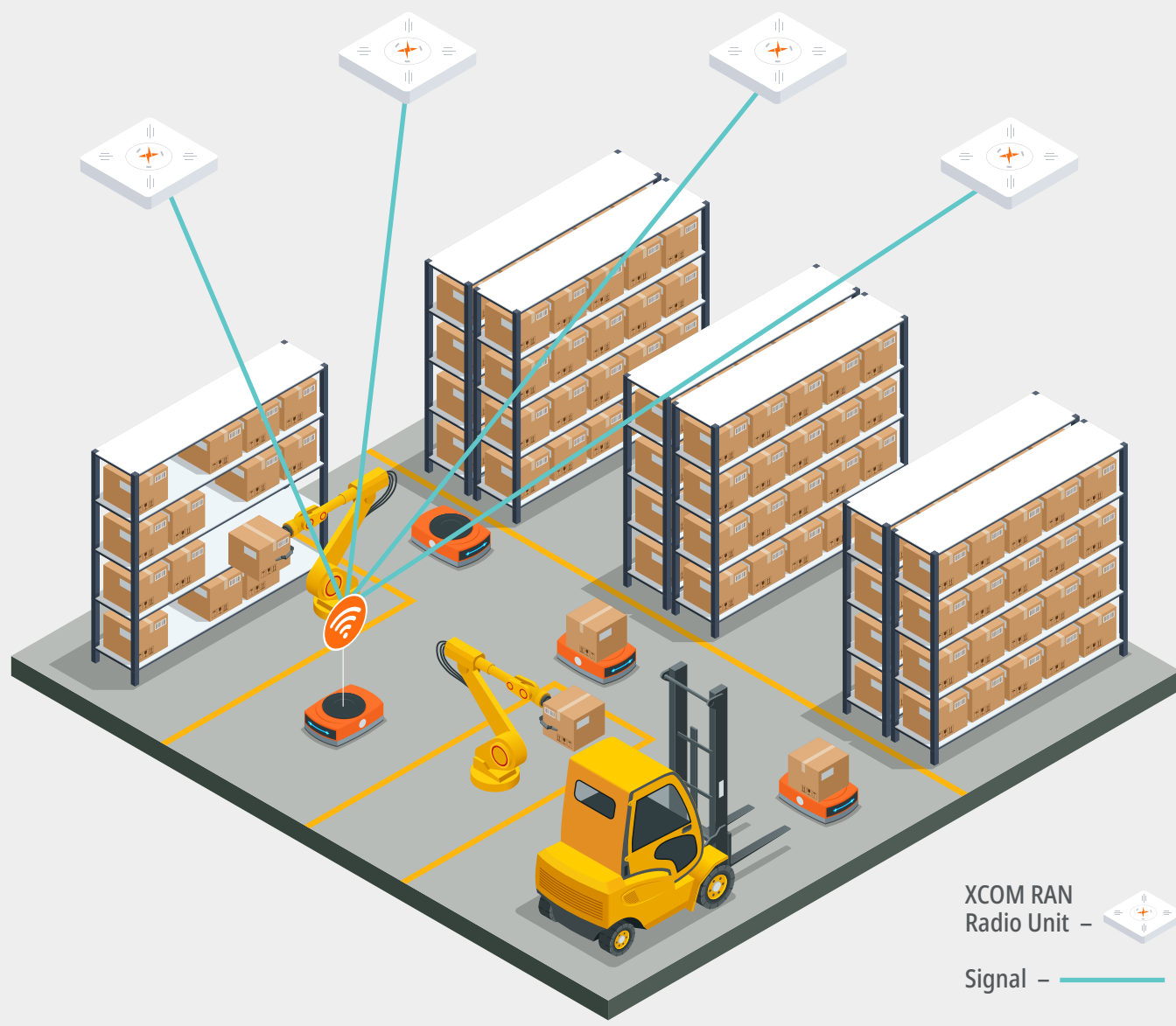
XCOM RAN utilizes a multipoint radio system that delivers capacity, flexibility, and coverage unmatched by other systems

Joint Processing

Radio Units (RUs) process signals at the edge and connect with the XCOM RAN platform, eliminating handoff boundaries and interference conditions

Scalability

Every RU added increases coverage and capacity, without additional spectrum or cell handovers



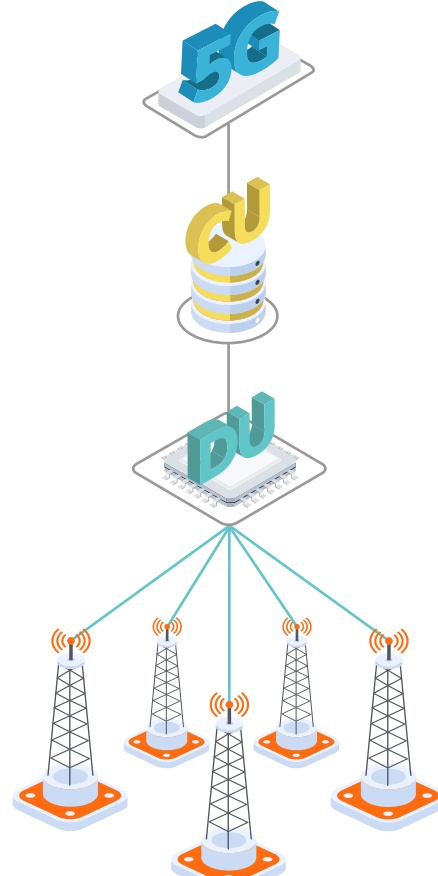
Spectrum Efficiency

Licensed or shared licensed

Leveraging either CBRS shared licensed spectrum, or Globalstar Band n53 (5G), XCOM RAN helps optimize terrestrial wireless communications

Enhanced performance

XCOM RAN delivers multifold capacity gains and superior performance versus baseline 5G New Radio (NR) systems, both for downlink and uplink transmissions



Seamless Integration and Deployment

Open RAN Compatibility

Built on 3GPP, ensuring compatibility with existing 5G devices

Simplified deployment

Easily and economically enables systems to scale, making it simple to set up a network with virtually no RF planning

Real-World Applications



Industrial automation

Supports high-performance, high-reliability requirements of manufacturing and warehouse automation

Enterprise connectivity

Ideal for private wireless networks in ports, campuses, mines, and other high-density environments, both indoor and outdoor



Mission-critical operations

Provides reliable, consistent service free from RF noise and handoffs

Ready to Transform Your Network?

Explore how XCOM RAN can deliver unparalleled capacity, flexibility, and coverage for your operations. Reach out for a free product tour to see how it works – live.

[Get Your Free Product Tour](#)