

XCOM X RAN™
by Globalstar

Private Wireless Reimagined

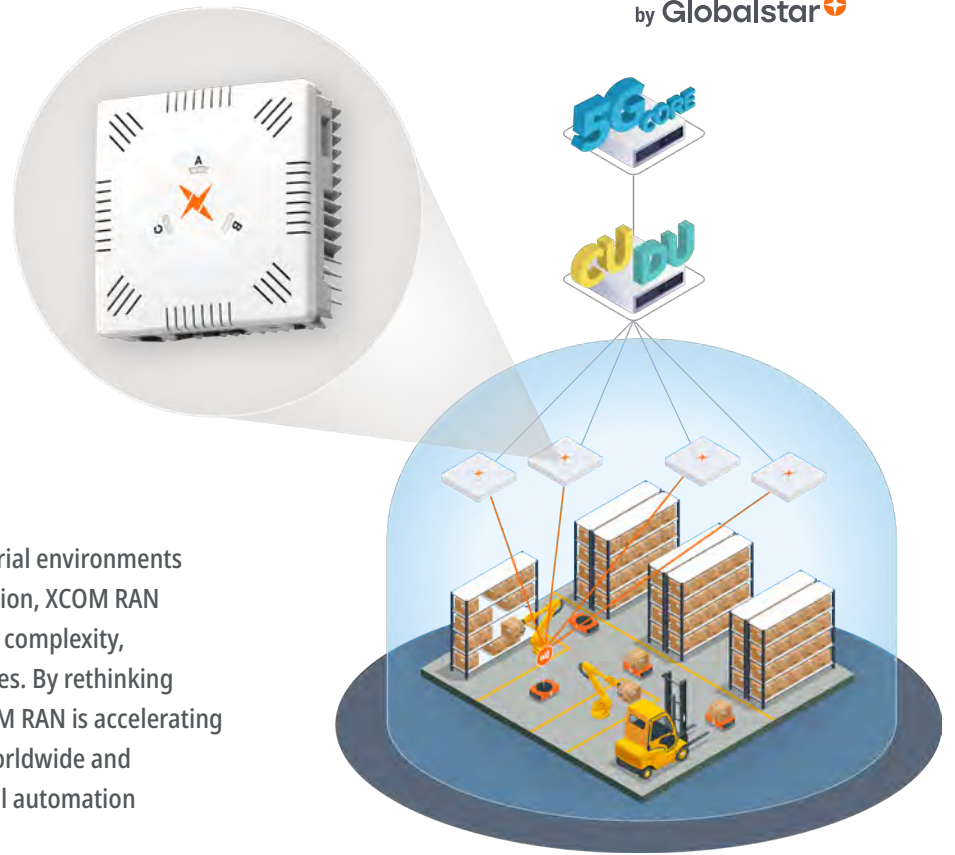


Company Overview

XCOM RAN delivers the next generation in private 5G by combining Open RAN architecture with both licensed and shared spectrum to create a fully integrated private wireless solution purpose-built for industrial enterprises. Its signature Supercell architecture eliminates the performance limitations of conventional small-cell deployments, delivering four times greater network capacity, seamless device mobility, and ultra-reliable low-latency connectivity across warehouses, factories, ports, and logistics hubs.

Designed for the realities of modern industrial environments with high device density and rapid AI adoption, XCOM RAN simplifies deployment, reduces operational complexity, and scales consistently across global facilities. By rethinking private 5G from the core to the device, XCOM RAN is accelerating the adoption of private mobile networks worldwide and establishing a new benchmark for industrial automation wireless network performance.

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The Spectrum Advantage

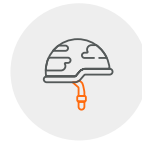
XCOM RAN is the only private 5G solution that combines licensed Band n53 spectrum, exclusively provided through its parent company Globalstar, with shared spectrum bands (n48 in the US, n78 in Europe and Asia). In locations where shared spectrum is locally available and abundant, it provides reliable connectivity for an industrial enterprise. And in locations where shared spectrum might be in contention, for example in U.S. ports or in countries where spectrum is not assigned for local private 5G use, Globalstar's dedicated Band n53 spectrum provides reliable, cost-effective, interference-free connectivity for mission-critical applications. It also allows multinational enterprises with global operations in manufacturing, logistics, transportation, mining, and energy to standardize on a private 5G solution across geographies.

Top Use Cases for XCOM RAN



Warehousing & Logistics

Low-latency control for AGVs/AMRs, real-time inventory management, order fulfillment, and uninterrupted connectivity across large facilities.



Government & Defense

Secure, interference-resistant communications for logistics, asset monitoring, and tactical coordination in critical environments.



Manufacturing & Robotics

Support AI-driven physical processes, on-site edge compute, and high-capacity video uploads for analytics to enable smarter, faster production cycles.



Energy, Oil, & Utilities

Remote site coverage and reliable connectivity in harsh conditions for safer operations and real-time infrastructure monitoring.



Construction & Mining

Reliable, rugged connectivity for remote operations, worker safety monitoring, and heavy equipment tracking in challenging environments.

Leadership and Founding Team

The pedigree behind XCOM RAN is significant. The XCOM RAN advancements in private 5G originated at XCOM Labs, founded in 2018 by former Qualcomm CEO Paul Jacobs, former Qualcomm CTO Matt Grob, and former Qualcomm President Derek Aberle – the team that built the foundational technology underlying global 5G. With XCOM Labs, they set out to solve the limitations they saw in 5G networks. Acquired by Globalstar in 2023, and with Paul Jacobs now at the helm of both companies, XCOM RAN represents the application of that deep wireless expertise with an innovative approach to private 5G, addressing the growing wireless connectivity demands of AI-driven industrial automation.

The XCOM RAN business unit is headed up by General Manager Tamer Kadous, another former Qualcomm executive. At Qualcomm Tamer was responsible for designing and implementing wireless communication systems that were the precursors to private 5G, including MulteFire and LTE-U. At XCOM Labs he was the VP of Wireless Engineering and designed the XCOM RAN next generation wireless architecture to boost 5G performance and enhance spectral efficiency. Today he oversees all aspects of the business – from engineering through commercialization.

Conclusion

We've entered a new industrial automation era where the wireless network is the platform for driving physical AI on premises – the essential element enabling advanced autonomous operations for greater productivity, efficiency, and safety. As physical AI becomes the new norm for industrial automation, the amount and types of optimizations that can be applied will increase exponentially. Industries need an underlying wireless network architecture that goes beyond coverage to deliver capacity and mobility – a comprehensive, reliable solution that can adapt and grow with their automation strategies. That's what we deliver with our end-to-end XCOM RAN private 5G solution. It truly is private wireless reimaged.