

Manufacturing Facilities

Cellular Coverage, Private 5G, and IoT Sensing



Future-Ready Connectivity for Modern Manufacturing

Today's factories rely on seamless connectivity to keep workers connected, production running efficiently, and critical operations on track. Yet large manufacturing facilities filled with heavy equipment, metal structures, production lines, and constantly moving assets often struggle with inconsistent wireless coverage that can impact communication, productivity, and visibility into operations.

Nextivity helps manufacturers deploy a flexible, future-ready connectivity infrastructure with CEL-FI QUATRA® solutions that deliver reliable cellular coverage throughout the facility. By supporting communications, safety, and day-to-day operations on a single infrastructure, manufacturers can improve efficiency, reduce downtime, and keep workers connected. As operational requirements evolve, the same infrastructure provides a scalable path to private 5G, IoT sensing, smart building controls, and other advanced applications that enable greater automation, real-time visibility, and continuous process improvement.

The result is a flexible, cost-effective connectivity infrastructure that helps manufacturers maximize the value of their investment, adapt to changing operational requirements, and support future innovation without the cost and disruption of deploying separate networks.

Design Once, Connect Everything

- ▶ One infrastructure for people, machines, and data
- ▶ Improve efficiency and reduce downtime
- ▶ Enable future automation and operational visibility
- ▶ Maximize long-term infrastructure investment

Why cellular over Wi-Fi?

- ▶ Facility-wide connectivity for people, devices, and operations
- ▶ Designed for mobility, reliability, and scale
- ▶ Better performance in challenging industrial environments
- ▶ Supports workforce communications, safety, and emergency response
- ▶ Provides a path to private 5G, IoT sensing, and smart building controls
- ▶ Enables automation, real-time visibility, and operational intelligence
- ▶ Reduces infrastructure costs by supporting multiple technologies on a single system

Five Drivers of Manufacturing ROI



Productivity Improvement

Worker efficiency and collaboration



Downtime Reduction

Faster issue resolution and recovery



Automation Performance

Faster, more reliable AGVs, robotics, and mobile operations



Operational Visibility

Monitoring, analytics, and insights that drive efficiency

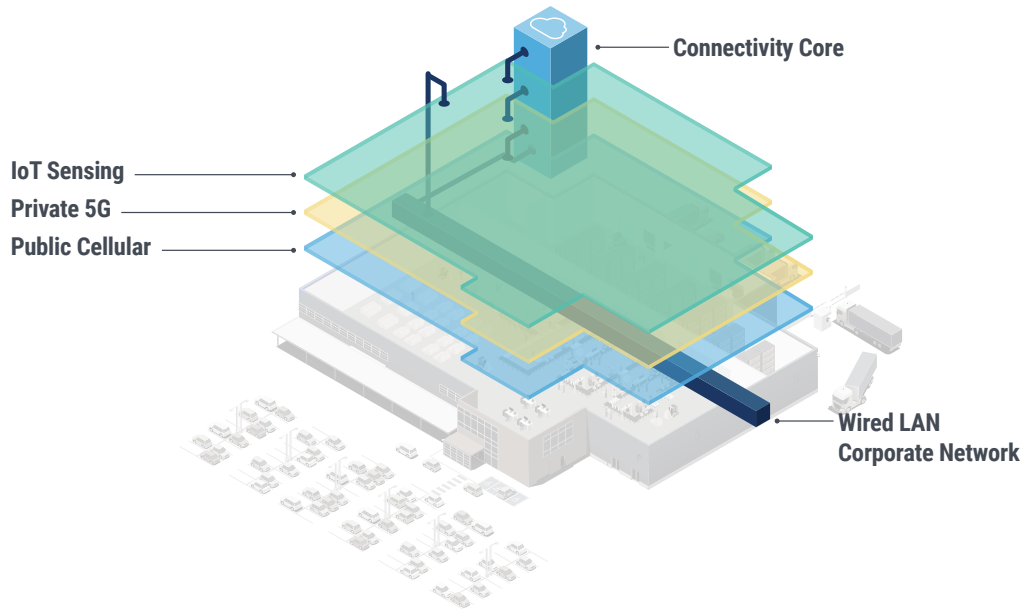


Safety and Risk Management

Emergency communications and worker protection

A Smarter Approach to Connectivity

Nextivity offers a unique approach to connectivity, with public cellular, private 5G, and IoT sensing together on a single CEL-FI QUATRA DAS infrastructure. Our solution delivers reliable communications today while reducing complexity and cost as operations scale. This layered, “design once, support everything” approach provides a future-ready foundation for safety, automation, analytics, and AI-driven innovation.



CEL-FI QUATRA 4000c/e



Public cellular connects people.

Private cellular connects machines.

IoT connects insights to action.

Enabling Employees, Automation, and Insight Across the Warehouse

Cellular, Private 5G, and IoT Use Cases



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