AIRVINE

INDUSTRIAL

Advanced IIoT needs Advanced Network Infrastructure

The Industrial IoT market (IIoT) represents yet another area where digitization and high-speed connectivity are driving a revolution in factories and warehouses.

The Industrial IoT (IIoT) market is spearheading a transformation in factories and warehouses, where advanced network infrastructure is crucial for improving efficiency and reducing costs. With over 10 billion square feet of industrial space in need of significant connectivity upgrades, the demand for modern, robust backhaul solutions is at an all-time high.

State of the Factory

Factories and warehouses are characterized by their demanding environments—constant 24x7 operation, harsh conditions, and legacy infrastructure that wasn't built to support today's data-intensive technologies such as 3D printing, AI-driven robotics, and real-time big data analytics. Upgrading via traditional wired backhaul solutions, though reliable, are often expensive, slow to deploy, and disruptive, making them less suitable for the fast-paced and evolving needs of industrial settings.

WaveTunnel™ by Airvine

> ▐▐ *The Fourth Industrial Revolution, 4IR, or Industry 4.0, conceptualizes rapid change to technology, industries, and societal patterns and processes in the 21st century due to increasing interconnectivity and smart automation.* – Wikipedia

WaveCore™ by Airvine

A single warehouse can be 100,000+ square feet requiring cable runs of thousands of feet

Airvine Innovative Wireless Solutions

Airvine provides a groundbreaking alternative with its flexible, high-capacity wireless backhaul solutions, designed specifically to meet the challenges of industrial environments. These solutions enable the seamless connection of devices and systems across large, complex spaces without the need for extensive cabling. The WaveTunnel with its ground breaking NLOS 60GHz operation blasts through most interior walls and beam steers around corners. For those walls or barriers made of concrete or brick, our WaveCore system easily penetrates up to 12" of these materials with multi gigabit speeds. Key benefits include:

RAPID DEPLOYMENT

Wireless backhaul solutions from Airvine can be installed quickly, minimizing operational downtime and avoiding the costly disruptions associated with traditional cabling.

SCALABILITY AND FLEXIBILITY

Unlike fixed wired networks, Airvine solutions are easily scalable and moveable and can be reconfigured to meet the evolving needs of industrial operations, ensuring that the network grows alongside the business.

ROBUST SECURITY

With multiple layers of built-in security, pervasive connectivity from Airvine protects sensitive data, making them ideal for critical industrial applications.

COST-EFFECTIVE

By eliminating the need for extensive wiring and the associated labor, Airvine solutions significantly reduce the costs of network upgrades and maintenance.
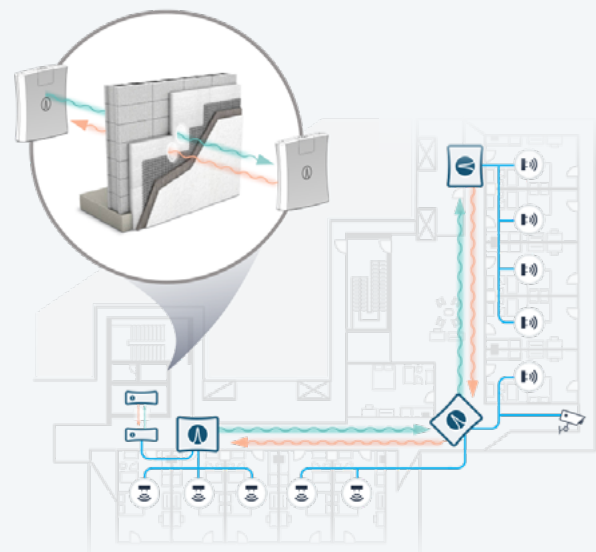

WaveTunnel and WaveCore Example Floorplan

Future-Proofing Industrial Operations

As industries continue to evolve, the need for a reliable, high-performance backhaul network becomes increasingly critical. Airvine's solutions empower industrial operations to overcome the limitations of outdated infrastructure and embrace the future of connectivity. Whether upgrading existing systems or deploying new networks, Airvine provides the essential backbone that supports modern industrial connectivity, driving efficiency, reducing costs, and enabling innovation.

For industrial environments where connectivity is the backbone of growth and productivity, advanced backhaul solutions from Airvine offer a pathway to sustained success in the digital age.

Contact Us

Visit us at www.airvine.com or contact our support team at info@airvine.com for more information.