



ANY BUILDING • ANY FLOORPLAN

ANYWHERE

COMPANY OVERVIEW

# Airvine was Founded in 2018 in the Heart of Silicon Valley

## A New Solution – Look Ma, No Wires!

Since 2018 the team has filed five patents including NLOS mmWave operation and wireless concrete wall penetration; built, deployed, and tested our breakthrough systems around the globe.

Our offerings seek to address the segment of enterprise networking that until now has been the exclusive provenance of cable and fiber: Local Area Network (LAN) backbones.

For years the LAN was primarily used to connect computers. As Wi-Fi blossomed, device-based ethernet connections have migrated to wireless; in fact, most laptops today don't even have an ethernet port.

New applications, new IoT devices, and next-generation APs all use cable and fiber today for connectivity.

## Until Today.

Much of this infrastructure is old, supporting maybe 100 Mbps—if that. New Wi-Fi standards have pushed APs to gigabit speeds and more. In addition, these wireless networks are now supporting an expanding cadre of applications, from IoT and video security to AR/VR, 5G NR femtocells, and more. For the future, LAN backbone multi-gigabit speeds, low latency, and high security are required.

## Legacy Hard-Wired Solution

### WaveTunnel™ System by Airvine

Using a wireless backbone for the current and future LAN has all the advantages wireless typically brings—it is fast to install with minimal physical disruption.

Until today, however, a wireless backbone solution that can deliver on these needs has not been available. The right answer for this application must be Non-Line-of-Sight, meaning it goes through walls, around corridors, through concrete, has multi-gigabit performance, and is highly secure.

## Our Vision: Pervasive Connectivity for the Modern Enterprise.

### Enter the WaveTunnel™ System from Airvine – WaveTunnel by Airvine Operates in the 60GHz Band

Delivering multi-gigabit speeds with true Non-Line-of-Sight capabilities, making it the only solution in this band that can steer around corners and penetrate most indoor walls. It can integrate with existing LAN backbones or function as a separate network for IoT or guest traffic—ideal for applications in numerous markets.



## And then came the WaveCore™

WaveCore is a key component of our pervasive connectivity solution set, designed to enhance our wireless backbone capabilities. WaveCore seamlessly works to penetrate through concrete, ensuring fast, reliable, and secure connectivity in challenging environments. This innovation makes our solutions the most versatile and robust on the market, providing unparalleled connectivity in even the most demanding settings.



## Now Available WaveCore Flex™ by Airvine

### Eliminate the Last Cable—From Rooftop to Rack, Wirelessly

WaveCore Flex is a high-performance, outdoor/indoor wireless point-to-point Ethernet bridge that delivers multi-gigabit throughput through concrete—no drilling, no roof penetration, no delay. It is the latest product in Airvine's wireless Ethernet backbone portfolio, joining WaveTunnel™ (horizontal connectivity) and WaveCore™ (vertical, floor-to-floor connectivity or through interior concrete walls) to enable fully cable-free networking inside any building.

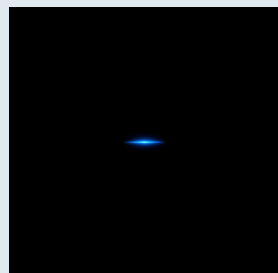
With WaveCore Flex, networks can now extend directly from rooftop broadband or adjacent buildings straight into the LAN—all without trenching, conduit, or violating roof warranties.

### What It Does

WaveCore Flex connects external broadband sources—such as rooftop Wi-Fi APs, FWA CPEs, cameras, or satellite terminals—to the internal network infrastructure without using cables or drilling. It operates as a Layer 2 PTP Ethernet bridge with PoE input/output and delivers 2Gbps through 8 inches of concrete. It supports both indoor-to-outdoor and outdoor-to-indoor installations and allows multiple architectural scenarios including:

- Roof-to-IDF connectivity (no roof drilling or cable runs)
- Connecting garden-style or detached buildings wirelessly
- Connecting outdoor devices to the indoor network with no drilling
- Flexible deployments using indoor or outdoor models

**The result:** instant, high-speed backhaul that avoids the permitting delays, construction costs, and disruptions of traditional wired solutions.

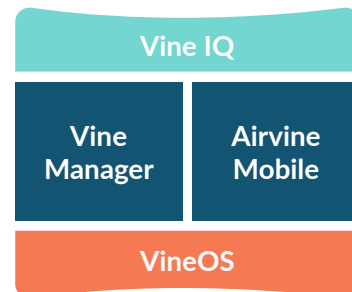


# Powered by VineSuite

**AirvineMobile | VineIQ | VineSuite | VineOS | VineManager**

Supported by the VineSuite software, which includes VineOS, VineManager, AirvineMobile, and VineIQ, the “Wave” networks by Airvine offer automatic re-routing, robust QoS, and secure connectivity.

The WaveTunnel system can be integrated with the existing LAN backbone, or, if desired, can be deployed as a parallel but completely separate network, allowing segmentation of security-sensitive applications from inherently insecure IoT traffic.



## Summary

While the benefits of wireless networks are well-known, using wireless as an enterprise backbone was not feasible until the introduction of the WaveTunnel, WaveCore, and now WaveCore Flex systems. These innovations, powered with VineSuite, transform the way we think about LAN backbones, delivering high-performance, Non-Line-of-Sight, secure connectivity for any building, any floorplan, anywhere.

WaveCore Flex is the final breakthrough in wireless enterprise networking—bridging rooftop, wall, and room without touching a single cable. It solves the last foot challenge that fiber can’t reach without drilling, enabling service providers, property managers, and enterprise IT teams to bring gigabit speeds indoors with speed, flexibility, and zero disruption.

With Airvine as your partner, delivering pervasive connectivity has never been easier.

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Airvine is a fast-growing Silicon Valley innovator of indoor wireless connectivity solutions designed to provide a completely wireless, Ethernet backbone for all types of commercial buildings from MDUs to industrial. Based on our patented approaches, Airvine can deliver pervasive gigabit connectivity throughout a building, completely wirelessly, providing a backbone for APs, cameras, IoT – anything with an ethernet port. The WaveTunnel 60GHz system delivers multigigabit connections that operate NLOS penetrating interiors walls such as sheetrock and wood. The WaveCore product line completes the solution set by delivering multigigabit connectivity through 12” or more of concrete. Combined we offer fast, zero construction approaches to connecting any building, any floor plan, anywhere. © 2025 Airvine Scientific, Inc. All Rights Reserved

