



CASE STUDY

High Stakes, No Cables: The Industrial Network That Changed Everything

Aveno is a leader in edible oils and fats, blending traditional craftsmanship with state-of-the-art automation in its logistics and production processes. When the company moved to its new office and expanded operations, they needed more than just a network—they needed a scalable digital foundation that could handle real-time automation, robotics, and industrial IoT. That's where Arbecom, a local IT partner known for delivering personalized, high-performance infrastructure, stepped in. Together with distributor Wimood and Cambium Networks, they engineered a resilient wireless solution tailored to Aveno's growing demands.





"This project perfectly illustrates how a modern production and logistics environment demands high-quality wireless technology. Thanks to the collaboration between Arbecom, Wimood, and Cambium Networks, Aveno now operates on a network that is as forward-thinking as its own business operations."

— Arbecom Project Lead

The Challenge

Operating in a fast-moving production environment meant Aveno faced zero margin for network failure. Several critical systems—automated Movu shuttles, Zebra scanners in the warehouse, CMR printers in hard-to-wire zones—were fully reliant on uninterrupted Wi-Fi coverage. Add to those harsh environmental conditions like temperature fluctuations and vapors, and the need for a custom-designed, robust, and adaptable wireless network became obvious. According to the team at Arbecom, "For Aveno, stability was essential. In an environment where the entire logistics process depends on Wi-Fi, a reliable infrastructure is not a luxury but a necessity".

The Solution

Arbecom designed a network architecture using Cambium Networks' ONE Network platform—a converged framework that enables centralized cloud-based management and intelligent automation across wired and wireless infrastructure. Cambium products deployed: 31 Cambium Wi-Fi Access

Points:

- XE3-4 Wi-Fi 6/6E APs in production halls for high-density, tri-radio coverage and seamless roaming.
- XV2-21X indoor APs in office areas for efficient, cost-effective connectivity.
- 14 cnMatrix EX2028-P Switches: Providing high-performance PoE and intelligent switching capabilities.
- cnMaestro™ cloud platform: For unified, end-to-end management, device lifecycle monitoring, and AI-driven diagnostics.

Each deployment phase was precisely aligned with Aveno's facility renovation and growth schedule, allowing minimal disruption and maximum integration.

WIMOOD

Field Results

The new infrastructure brought immediate and measurable improvements across Aveno's operations:

- Zero interruptions in Movu robot navigation across production halls thanks to seamless AP handoffs.
- Flawless scanning performance in the warehouse, even in challenging RF environments.
- Reliable printing from CMR stations in cable-inaccessible zones, ensuring timely truck dispatch.
- Simplified scalability: As Aveno's production expands, the Wi-Fi infrastructure easily adapts—no need for forklift upgrades or network reworks.

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Business Value

Aveno's investment in Cambium's ONE Network platform has paid off in key business performance metrics:

- Productivity gains through uninterrupted automation processes.
- Operational resilience in temperature-variable environments.
- Cost efficiency through a scalable, software-defined infrastructure that eliminates overengineering.
- Time-to-value accelerated by zero-touch onboarding and simplified device lifecycle management via cnMaestro.

Aveno's IT team now spends less time managing infrastructure—and more time innovating.

Cambium ONE Network Advantages

Cambium's ONE Network delivers exactly what modern industrial environments demand: A converged, secure, and automated platform that unifies Wi-Fi, switching, SD-WAN, and network security from the edge to the cloud. Aveno benefits from:

- Intelligent automation for device provisioning and roaming.
- Application-aware optimization ensuring real-time systems get priority bandwidth.
- Unified management across indoor and outdoor environments, with no hidden licensing costs.

About Cambium Networks

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences, and device connectivity, with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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