



ERA[®] DAS

THE THE ALL-DIGITAL WIRELESS SOLUTION TRANSFORMING
MANUFACTURING & WAREHOUSING CONNECTIVITY

MANUFACTURING & WAREHOUSING DEPEND ON RELIABLE CONNECTIVITY

Modern manufacturing and warehousing operations depend on reliable wireless connectivity for real-time communication, production management, automation, inventory tracking, analytics, and worker safety. In today's highly connected industrial environments, robust indoor wireless coverage is no longer optional – it is essential to maximizing productivity, controlling costs, and maintaining operational continuity.

Every process in modern industrial environments relies on uninterrupted wireless communication. From automated production systems and inventory management to worker safety and remote monitoring, connectivity has become critical operational infrastructure.

ERA® DAS is not a future concept. It is deployed and operating at scale today, backed by a decade of real-world digital deployments.

Reliable facility-wide 5G coverage supports:

- Real-time production and operational visibility
- Robotics and industrial automation
- Inventory tracking and logistics coordination
- Worker communication and safety systems
- IoT-enabled monitoring and analytics
- Predictive maintenance and asset management

ERADAS performance in hard-to-reach industrial areas

The ERA digital DAS platform is engineered to deliver high-performance 4G/5G connectivity throughout complex manufacturing and warehousing environments – including the places signal normally dies:

- Production floors and factory environments
- Warehouses, distribution centers, and high-bay storage
- Loading docks and outdoor operational areas
- Utility, maintenance, and back-of-house spaces
- Administrative offices and shared workspaces
- Large industrial campuses and multi-building sites



Why connectivity matters in industrial environments



Productivity gains through connected operations

Seamless wireless connectivity enables continuous communication and supports advanced automation technologies that improve efficiency and increase throughput – reliable communication across production and warehouse environments, better robotics and automation performance, faster operational decision-making, fewer manual processes and errors, and improved workforce coordination. Consistent coverage helps organizations optimize workflows while reducing operational friction and downtime.



Real-time visibility and predictive maintenance

High-speed, low-latency 5G connectivity enables real-time asset and inventory tracking, environmental and operational monitoring, connected safety systems, and remote equipment monitoring. 5G-enabled sensors and connected diagnostics let organizations watch equipment health and catch faults before they become failures – reducing unplanned downtime, extending equipment lifecycle, and improving maintenance scheduling.



Immersive training and remote collaboration

AR/VR technologies require high-bandwidth wireless connectivity to support immersive training, troubleshooting, and collaboration: AR-guided maintenance and repair, VR-based workforce training, remote expert collaboration, interactive diagnostics, and digital work instructions. Reliable wireless infrastructure helps improve worker productivity, accelerate training, and reduce operational disruptions.

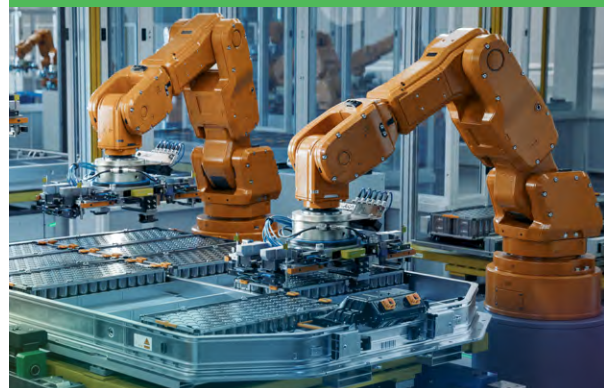
SMART MANUFACTURING AND INDUSTRIAL AUTOMATION

Modern manufacturing depends on reliable mobility and high-speed connectivity

5G-enabled manufacturing applications include:

- Industrial robotics and automation systems
- Autonomous mobile robots (AMRs)
- Connected production equipment
- Real-time production monitoring
- Industrial IoT applications
- Mobile workforce enablement

The ERA® DAS platform preserves signal integrity end-to-end, delivering reliable mobility and real-time performance throughout industrial environments.



INTELLIGENT WAREHOUSING AND LOGISTICS

Real-time visibility and connected workflows

Connected warehousing applications include:

- Real-time inventory visibility
- Automated fulfillment and picking systems
- Barcode and RFID scanning
- Connected forklifts and logistics systems
- Fleet and shipment coordination
- Smart warehouse analytics

Reliable connectivity supports faster operations, reduced delays, and improved supply chain performance.



INDUSTRIAL OPERATIONS, SAFETY, AND FACILITY MANAGEMENT

A growing ecosystem of connected industrial systems

Connected industrial systems include:

- Worker safety and emergency communications
- Security monitoring and surveillance
- Building automation and energy management
- Environmental and compliance monitoring
- Digital twins and predictive analytics
- Smart utility and infrastructure management

These systems must function reliably across production floors, storage areas, loading docks, and remote operational environments.



WHY 5G DOESN'T REACH INSIDE

Here is the problem: the macro network was built to cover ground, not to get through it. Industrial buildings are among the hardest there are — steel structure, metal cladding, racking stacked forty feet high acting as a wall the signal has to cross a hundred times over, and machinery throwing RF noise all day. A strong signal in the yard can be nothing three aisles into a distribution center. Adding towers outside does not fix it, because the building — and everything you have put in it — is the obstacle.



WHAT A DAS IS

A distributed antenna system brings the mobile operators' networks inside and distributes them through the building. Signal arrives at a headend, travels the site over fiber or CAT cabling, and is radiated by antennas placed where people actually are. One shared system carries every operator at once — so a line supervisor on one carrier and a contractor on another get the same coverage from the same infrastructure. It is building infrastructure, engineered like power or Ethernet: a backbone, and distribution.

YOU NEED BOTH WI-FI AND DAS

Every property has Wi-Fi, and it is not going anywhere.

It carries the systems you own and control — the WMS, the scanners, the automation, the building services. But every person on the floor is also carrying a phone that is looking for a cellular network you do not run, and so is every contractor, every driver, and every visitor who walks through the gate.

Wi-Fi calling does not close the gap. It has to be switched on, and it only works once someone is already on the facility Wi-Fi network — which a delivery driver at the dock, a contractor on a two-day job, or a regulator arriving unannounced are not. It hands off poorly at the door. And it does not carry what a cellular network carries: E911 that knows where the caller

actually is rather than where the account is registered, wireless emergency alerts to every device in a building, or public-safety communications. A DAS is how the cellular network itself gets inside — every phone, every carrier, automatically, with nothing to switch on.

The two do different jobs. Wi-Fi is the network you run for the devices you own. A DAS is how the operators' networks reach everyone else — so a line supervisor on one carrier and a maintenance contractor on another both have service, in the same aisle, on the same infrastructure. Industrial facilities need both.

Together, these technologies form a resilient, multi-layer wireless foundation for modern manufacturing and warehousing.

Every DAS brings cellular indoors.

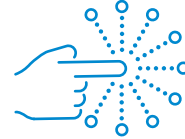
ERA[®] DAS is built on four things most cannot claim.



ONE PLATFORM

Any venue. Any operator. Any technology.

One infrastructure, approved by global operators, carrying public cellular, private networks and public safety – pre-4G through 5G. A true neutral host: every carrier on one shared infrastructure. Put the RAN where it makes sense – in a single plant, across an industrial campus, or centralized remotely across a portfolio of sites – with low-, medium- and high-power radios matched to the space, from production floors and high-bay storage to loading docks, yards and offices.



ALL DIGITAL

Digital connectivity. Today. Evolvable.

An industry first: only the ERA DAS platform digitally connects all major RAN vendors to DAS, simplifying operator connectivity.

No analog RF. Anywhere.

Direct digital connectivity eliminates radio heads, POI systems and RF combining in the headend, reducing equipment and infrastructure in space-constrained hospitality environments.

Performance that's measured.

Up to 30% higher signal quality and throughput and up to 98% lower latency in live, high-density deployments.

Smaller. Cooler. Greener.

Up to 90% less headend space and up to 55% lower power and cooling.



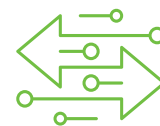
SOFTWARE-DEFINED OPERATIONS

Simple to deploy. Intelligent to operate.

Zero-touch configuration, software-defined routing, real-time visibility and built-in security simplify deployment with minimal disruption to a property that never closes.

Lower CAPEX. Lower OPEX.

Fewer RF components, software-based expansion and fewer site visits make it easier to support growth and changing capacity needs.



PROVEN AT SCALE

Proven. Not promised.

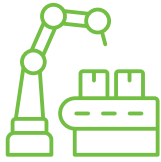
All-digital ERA DAS, operating at scale today across hotels, resorts, and integrated properties.

Digital since 2014.

More than a decade of digital DAS innovation, and still advancing.

TRUSTED FOR COMPLEX INDUSTRIAL ENVIRONMENTS

The ERA® DAS supports a wide range of manufacturing and warehousing environments, including:



Manufacturing plants and production facilities



Warehouses and distribution centers



Logistics and fulfillment operations



Industrial campuses and multi-building sites



Automotive and heavy industrial facilities



Food and beverage production environments



High-tech manufacturing and electronics facilities



Smart manufacturing and Industry 4.0 initiatives

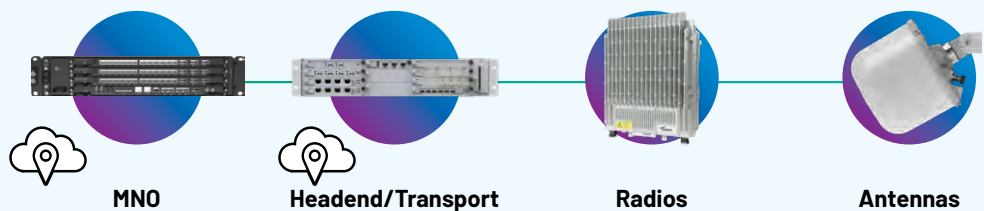
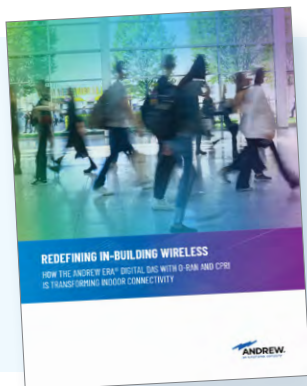
Empowering manufacturing & warehousing with future-ready digital infrastructure

The ERA digital platform enables industrial organizations to modernize with confidence. Its all-digital architecture strengthens operational performance while preparing facilities for the next generation of automation, IoT, and smart manufacturing innovation.

With the ERA DAS platform, manufacturing and warehousing organizations gain:

- Improved productivity and operational efficiency through reliable connectivity
- Enhanced visibility, automation, and predictive maintenance capabilities
- Universal 4G/5G coverage for all major carriers
- Lower power, cooling, space, and lifecycle costs
- Scalable infrastructure that evolves with future technologies
- A competitive advantage through connected industrial innovation

The ERA all-digital platform is more than a DAS. It is the foundation for connected, efficient, intelligent, and future-ready industrial operations — engineered by ANDREW®.



For the full architecture, see the [ERA DAS capabilities brochure](#).



Reliable coverage
from production floors to
bay storage and offices

Every operator,
on one system

Lower CAPEX and
OPEX, from install
through operation

Less power and cooling,
with performance you
can measure

Since 1937, ANDREW, an Amphenol company, has driven the evolution of wireless technology. Trusted by mobile network operators and enterprises globally, we work closely with our customers to deliver innovative solutions that enhance connectivity experiences both outdoors and indoors. Our dedicated global team is committed to advancing the industry, fueled by the vision that a better-connected future is possible.



ANDREW.COM

Visit our website or contact your local ANDREW representative for more information.

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