

operational visibility for

real-time decision-making,

new, data-driven services.

improved levels of quality and

efficiency, and opportunities for

the world. Headquartered in

more than 20 sales offices and

four R&D centers, and employs

around 850 people worldwide.

London, UK, the company operates

Smarter technology for all

# HOW LENOVO EDGE DEVICES

## HELP TO ACCELERATE HOT DEPLOYMENTS

To help manufacturers harness the Industrial Internet of Things (IIoT) to optimize operations and increase efficiency, Telit teamed up with Lenovo to build an all-in-one OT-IT Integration Appliance for a plug-and-play IIoT solution. Combining robust, reliable Lenovo ThinkCentre M90n Nano PCs with innovative software, the Telit deviceWISE® platform accelerates IIoT deployments, empowering manufacturers with real-time insight into operations on the factory floor in a plug-and-play appliance model. The Lenovo M90n Nano IoT economically provides robust distributed computing in a rugged industrial IoT Gateway PC located close to the data sources. This results in lower latency for actionable information, decreased network traffic, and less need for costly data center capacity expansion projects.

With Telit deviceWISE running on Lenovo IIoT gateways, manufacturers can collect data from any machine on the factory floor, enabling real-time decision-making.

Ricardo Buranello, VP & Head of IoT Platforms at Telit, elaborates: "deviceWISE is a powerful edge logic engine that collects, analyzes and visualizes machine data from the plant floor, enables users to integrate machines to databases, IT and cloud systems, and to create dashboards and human-machine-interfaces (HMIs) in just a few clicks, without the need for any custom code."

deviceWISE can be deployed on-premises or in the cloud and is platform-agnostic, compatible with any type of operating system and cellular gateway. To enable manufacturers to implement their IIoT strategy quickly and easily, Telit aimed to provide an all-in-one, turnkey solution.

#### Finding the right partner

Telit teamed up with Lenovo to deliver an out-of-the-box solution that combines Lenovo hardware with deviceWISE software in a single package.

"Partnering with Lenovo represents an exciting opportunity to enhance our service offering and meet growing demand for easy-to-deploy IIoT solutions," says Buranello. "The depth and breadth of the Lenovo portfolio really impressed us. Not only does Lenovo offer everything from small cellular devices to laptops to robust blade servers, but these products are available all over the world with local support and services.

While there are many choices from Tier2 OEMs, Lenovo's global scale, reach, and high product quality will help us to bring the deviceWISE platform to more manufacturers worldwide with an assurance of continuity of supply, and the global certifications and local support that our customers demand." The all-in-one solution is based on the Lenovo ThinkCentre M90n Nano with deviceWISE pre-installed and pre-configured. Everything is fully validated and integrated, so the nodes are simple to deploy and easy to scale.

Equipped with up to 8th generation Intel® Core™ vPro™ processors, the Lenovo ThinkCentre M90n Nano PC is smaller than most paperbacks yet delivers the same compute performance as a regular desktop.

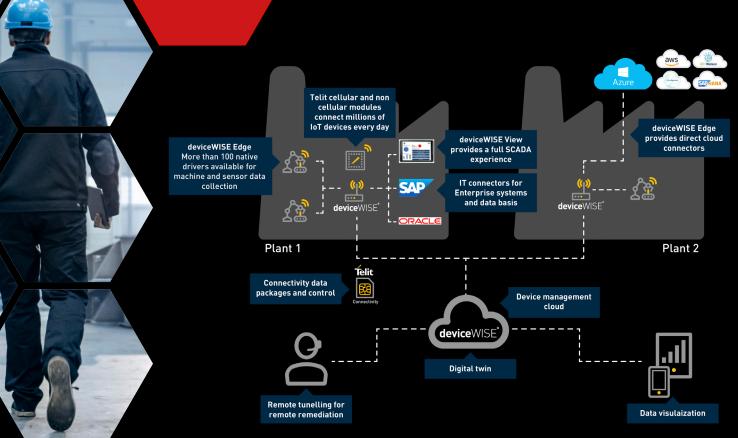
"Lenovo ThinkCentre M90n Nano is a strong match for deviceWISE," says Buranello. "It is compact, durable, and powerful, making it ideal for IIoT at the edge."

### Accelerating IIoT deployments

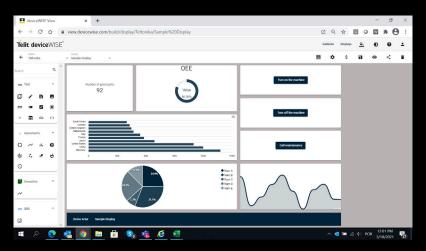
The deviceWISE platform provides edge intelligence for industrial asset management, secure remote access, OT to IT data exchange and processing, and other IIoT applications.

With five USB ports, WLAN, Bluetooth® and cellular connectivity, four serial ports, four GigE LAN, 2PoE, and 8GPIO ports the Lenovo ThinkCentre M90n Nano can be connected to almost any factory machinery, even older assets that do not have any embedded communication modules.

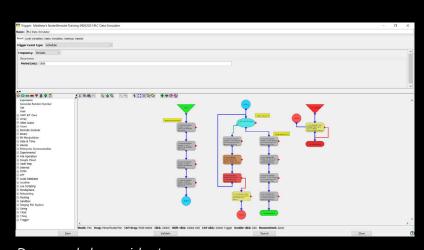
Thanks to hundreds of native drivers, deviceWISE collects data—such as the machine state, error codes, part count, temperature, humidity, and pressure—in real time. This data can be seamlessly mapped to any database and common enterprise applications or external analytics cloud platforms to support operational equipment effectiveness (OEE), preventive and predictive maintenance, and quality control.



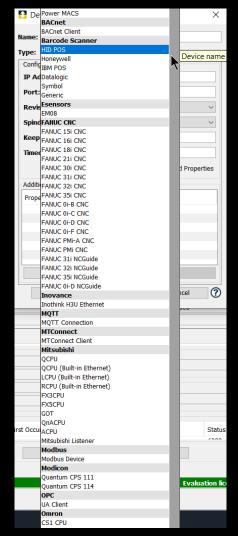
Telit deviceWISE solution architecture



Telit deviceWISE dashboard



Drag-and-drop widgets



Hundreds of native drivers for machine data collection

The all-in-one, plug-and-play nature of the deviceWISE platform enables manufacturers to accelerate IIoT deployments, empowering them to connect the factory floor to the enterprise with speed and ease. And with the Telit deviceWISE View software built in, users can create custom dashboards using drag-and-drop widgets to visualize and analyze data.

"Partnering with Lenovo, we have built an all-in-one solution engineered for quick, easy installation and simple integration with manufacturing machinery," says Buranello. "The deviceWISE platform reduces the risk and complexity of IIoT projects, and cuts time to market."

Looking to the future, Telit plans to integrate deviceWISE with other Lenovo edge devices, including the Lenovo ThinkStation P920 Rack 2U workstation and Lenovo ThinkSystem SE350 edge server.

### For more information

To learn more about Lenovo's edge devices, visit: <u>Lenovo.com/ThinkEdge</u>



We're excited to continue working with Lenovo to take the deviceWISE platform to the next level: for example, by enabling computer vision, advanced data analytics, artificial intelligence, and machine learning at the edge. Backed by Lenovo's solutions, services, and support, we can help manufacturers all over the world reap the rewards of the IIoT.

**Ricardo Buranello,** VP & Head of IoT Platforms,



#### **Specifications:**

Processor: Up to 8th Gen Intel® Core™ i7 vPro™

Memory: Up to 16GB

External bay: Supports USB-C docking Security: TPM 2.0, Kensington lock slot

Operating System: Windows 10 Pro, Windows 10 Home, Windows 10 IoT

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