Digi X-ON: Driving Digital Transformation for Business

If you're looking at wireless IoT vendors, protocols and hardware/software components to stitch together your own custom solution, it's worth taking a step back and thinking about business and operations goals — for you and your customers.

The real goal of automation is always a true digital transformation of business operations. You need to create a digital solution with real business ROI and a great user experience that's easy to deploy and maintain.

- When designing an automated solution, it's no longer possible to take a "technology first" approach. Creating a solution that revolutionizes your customer's operations can help drive better outcomes.
- Your customers need more than sensors in the field and data on a dashboard. They need **actionable insights** tailored to improve their operations and business results, with a friction-free user experience.
- You need to show your customers immediate results with a rapidly deployed proof-of-concept that scales seamlessly to a production system and delivers real ROI.
- And most of all, you need an integrated solution from a single trusted provider, avoiding the risk of a custom-engineered solution that is difficult for your company to deploy and maintain.



Digi X-ON was designed from the ground up to deliver on these requirements and support rapid, successful digital transformations for your customers.

For more information, visit:

www.digi.com

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About Digi International

Digi International is a publicly traded company (DGII) founded in 1985. With a long track record of delivering devices, tools and services for Industrial IoT applications, Digi understands the importance of creating reliable, production-ready solutions. Digi's products are designed, tested and certified to meet the needs of industrial customers worldwide. Digi products have long-term availability to support industrial product lifecycles. You can rely on Digi's long history and commitment to customer ROI for the continued support and longevity of our Digi X-ON solution.

About Digi X-ON

Digi X-ON® is a secure, scalable and reliable edge-to-cloud solution from a single trusted source. All the components of the solution are designed to work together out-of-the-box, with zero configuration required. Digi X-ON components deploy into a self-forming IoT network that requires no technical expertise to deploy.



About the technology behind Digi X-ON®

Digi X-ON is based on the LoRaWAN® standard defined and maintained by the LoRa Alliance®. Founded in 2015, the LoRa Alliance is a nonprofit association, driven by member companies (including Digi) that oversees and continues to develop the open global LoRaWAN standard. LoRaWAN is a true low-power, wide area (LPWA) protocol and brings significant advantages to Digi X-ON.

Open, non-proprietary standard — The LoRaWAN standard is supported and developed by the members of the LoRa Alliance. There is no risk of using a protocol from a single company that might disappear or change without notice, causing incompatibilities.

Interoperability — A wide range of LoRaWAN-based sensors are available to integrate into a Digi X-ON solution to meet the exact application needs of every customer.

Security — Data encryption and security are built into the LoRaWAN standard, protecting data collected and passed through a Digi X-ON network.

Long range — Digi X-ON networks can reach up to ten miles outdoors without obstructions and can also provide deep indoor coverage.

Low power consumption — Designed to send small amounts of data at intervals, sensors can mostly sleep. Batteries powering sensors can last many years without replacement.

Scalability — Digi X-ON networks can support a large number of sensors, and can be expanded easily as needed.

Get the **Digi X-ON datasheet** to learn more

Industrial IoT — driving business transformation with Digi X-ON

The global industrial IoT market is expected to grow at an annual rate of 23.5%, to $2.5 trillion US dollars in 2032*. This growth is driven by companies across diverse industries that realize it's now affordable to implement new data-driven solutions, and replace previously expensive, complex systems with a drop-in solution at a fraction of the cost.

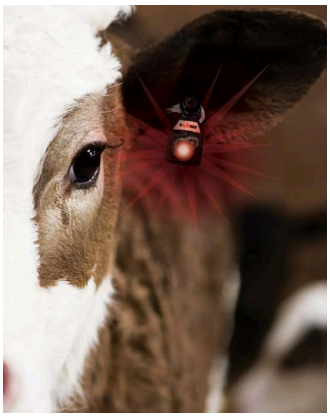
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Here is an example use case from a current Digi X-ON customer.



Fevertags uses Digi X-ON for cattle health monitoring in feed lots

Cattle represent a significant investment, and early warning and treatment of illness avoids expensive losses to the whole herd. A custom sensor (designed by Digi) in each cows' ear transmits health indicators to feedlot owners, providing alerts to inspect and treat a cow at the earliest indication of problems. This new system streamlines traditional operations which rely on cowhands on horseback riding through herds looking for signs of illness. Overall, the need for antibiotics is reduced and healthy cows continue to gain weight.

"We're not waiting to see physical signs of animal illness. We're able to catch it up to 72 hours earlier. The power and longevity of these devices translates into a lower cost of ownership."

— John Greer, CEO, FeverTags

SparkFun selects Digi X-ON for their first IoT node

When SparkFun Electronics decided to create a new line of IoT nodes, they selected the Digi X-ON solution. Digi X-ON combines a Digi XBee® LR module with a gateway and cloud solution for easy provisioning deployment and device management. With the complete SparkFun kit, customers are up and running in minutes, and the included air quality monitor shows a Digi X-ON proof of concept in action. Users can easily add other Qwiic sensors to test the exact IoT use case they want to automate.



Additional examples of Digi X-ON use cases include:

BUILDING RETROFIT

A Digi X-ON network can monitor conditions inside a building, transforming a structure into a "smart building." Sensors are available to monitor indoor air quality, leak detection and other issues and send immediate alerts to the right people for rapid troubleshooting.

WAREHOUSE AND LOGISTICS

This is another "smart building" application where it's possible to control and monitor doors and safety equipment on loading docks to improve operations at a fraction of the cost of traditional control systems.

WATER TREATMENT

Digi X-ON solutions can be deployed for a fraction of the cost of traditional SCADA systems and programmable logic controllers (PLCs) and can be easily configured without programming for any system, providing remote monitoring and control.

PRECISION AGRICULTURE

Digi X-ON enables custom solutions that can monitor weather conditions, CO_2 levels, soil moisture, livestock locations, stored feed conditions — and much more — using customized dashboards to optimize both crops and livestock yields.

Learn more about Digi X-ON today

At Digi, we're ready to discuss your business opportunities and plans for digital transformation solutions. You can reach out to us for more information and a custom quote on a Digi X-ON solution.

* Source: Global IIoT (Industrial IoT Market) Size/Share Will Reach

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