

Reduce your reaction times to critical events with Lumada Edge Intelligence, and:

- Future-proof your site IoT deployments.
- Cost-optimize and de-risk local data and ML model management within an enterprise.
- Meet demands for data quality and transparency.
- Secure operations data at the edge.

DATA SHEET

Power Actionable, Real-Time Insights at Your Critical Operating Sites

Lumada Edge Intelligence software powers actionable, real-time insights at your critical operating sites and enables local enterprise-class operations data management.

Optimized for use with Lumada Applications, such as Lumada Maintenance Insights and Lumada Manufacturing Insights, Edge Intelligence efficiently delivers site- or asset-level real-time advanced analytic insights at the point of work. It empowers your operations staff across the enterprise to respond more quickly to problems, save money and harmonize operations. By enhancing your organizational agility, without requiring modification of existing automation systems, it quickly and efficiently adds new operations management functions to give you a competitive advantage. Edge Intelligence provides a trusted IoT data hub for operations data that empowers site administrators to improve their site-level data operations and share data to better serve and improve the enterprise.

Edge Intelligence lets you:

- Reduce your organization's reaction times to critical events in operations with real-time insights, machine learning (ML) and AI analytics.
- Future-proof your IoT deployments with a standards-based, open and flexible application and solution environment to drive business differentiation and agility.

- Cost-optimize and de-risk site operations data management. Support corporate-wide intelligent data operations.

Key Capabilities

Management Tool: Edge Intelligence lessens the burden of data integration, configuration and management. It facilitates a quality data stream for use in analytics at the edge and enables other enterprise applications, data hubs and data lakes. Use the Lumada Edge Manager user interface (UI) to monitor and update the system software, add assets, remotely monitor devices, configure and manage data routes, and set up alerts. APIs also provide integration with external applications.

Lumada Edge Technician iOS Mobile App: The Lumada Edge Technician app enables you to provision devices and test and troubleshoot them where they are installed.

Visualization Tools: Edge Intelligence provides near-real-time visibility into key data in broad industry areas, such as manufacturing, transportation, energy and smart spaces. Configure visual key performance indicators (KPIs) as well as notifications and alerts to individuals, based upon events or opportunities derived from the system. You can also leverage other third-party visualization tools through open API access.

Data Processing and Management:

Edge Intelligence enables a trusted IoT data hub for operations data. It provides the ability to tier data from gateways to site- or asset-level hyperconverged servers to data centers and the cloud. At the edge, create data pipelines and subscribe to data streams coming from operations technologies. For example, applications can be run at the edge to allow real-time stream processing, advanced analytics and windowing of data as an extension to other operations applications and control systems.

Application Enablement and Analytics:

Edge Intelligence delivers core technologies to help build, package, deploy and maintain Industry 4.0 containerized applications and scale them easily. It abstracts away container orchestration and security technology. It also offers you the flexibility to bring your own docker containers. Thus, it allows customization and differentiation in a more modern framework. Common data access APIs and pub-sub services allow you to easily subscribe to a data stream or call an API to integrate with workflow or application logic.

Extend Lumada Applications: Edge Intelligence is optimized for use with Lumada Applications, such as Lumada Manufacturing Insights and Lumada Maintenance Insights. It efficiently hosts and extends them with asset-level real-time analytic insights, at the point of work, empowering your operations staff to respond more quickly to problems.

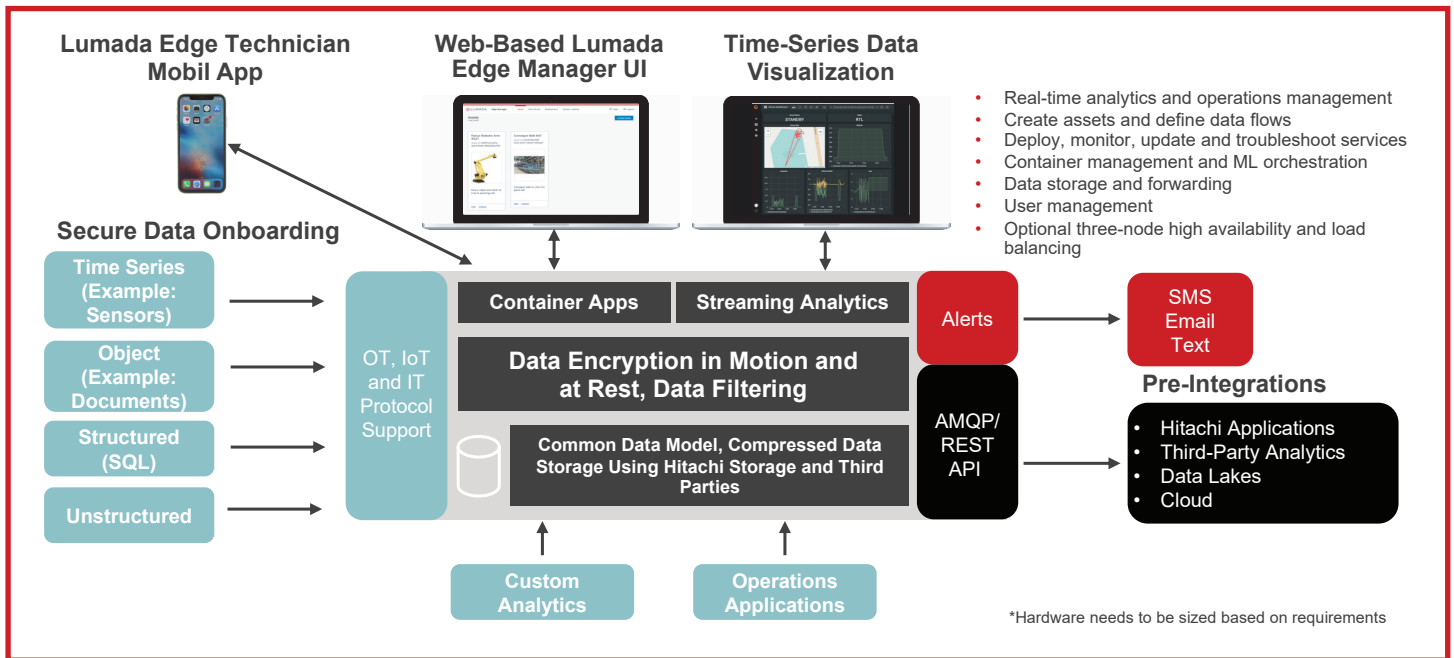


Figure 1. Lumada Edge Intelligence Product

Integration: Edge Intelligence offers a flexible way to read, write and transform data to and from operations systems via MQTT, AMQP, Modbus, HTTP and other protocols. It provides a console, which includes access to out-of-the-box device interfaces and allows you to manage gateway devices for store and forward. Edge Intelligence enables seamless integration to Pentaho from Hitachi Vantara, as well as third-party tools for analysis and data management.

Hardware: Edge Intelligence runs on any hardware platform that supports the Linux CentOS kernel and meets minimum hardware requirements. Microservices scale up or down, depending on the available compute. Hitachi Vantara also provides prequalified hardware such as Hitachi Advanced Server DS120 and DS7000 series, in one-node and three-node configurations for high availability. Further, Hitachi has a line of IoT gateways and

high-capacity storage platforms that can be leveraged as part of your complete IoT solution.

Edge Intelligence is a great addition to any IoT solution where cloud or data center storage costs, application latency, intermittent network connectivity and site- or asset-level reaction time is a concern.

We Are Hitachi Vantara

We guide our customers from what's now to what's next by solving their digital challenges. Working alongside each customer, we apply our unmatched industrial and digital capabilities to their data and applications to benefit both business and society.

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