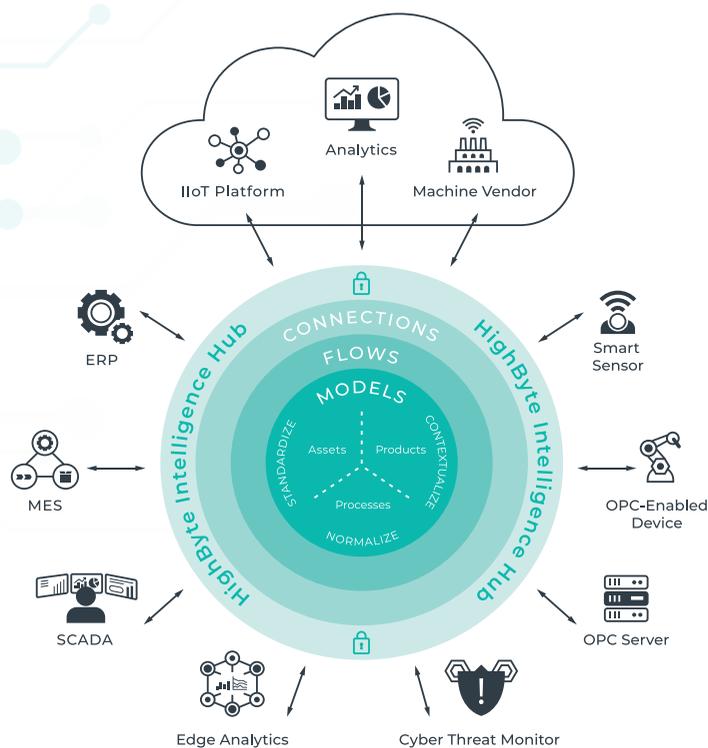# HighByte

HighByte Intelligence Hub
Make Your Industrial Data Useful

DataOps is a new approach to data integration and security that aims to improve data quality and reduce time spent preparing data for use throughout the enterprise. HighByte Intelligence Hub is the first DataOps solution purpose-built for industrial data. It provides industrial companies with an off-the-shelf software solution to accelerate and scale the usage of operational data throughout the extended enterprise by contextualizing, standardizing, and securing this valuable information. HighByte Intelligence Hub is able to run at the Edge, scale from embedded to server-grade computing platforms, connect devices and applications via OPC UA and MQTT, process streaming data through standard models, and deliver contextualized and correlated information to the applications that require it. Together, we can make your industrial data more useful for whatever digital transformation project comes your way.

Big Benefits for Operations and IT

- Organize, document, and standardize your industrial data in one solution
- Model and deliver your data more efficiently
- Stop writing custom scripts and troubleshooting broken integrations
- Reduce time spent preparing data for analysis

- Reduce Cloud storage costs for unusable and unneeded data
- Improve system-wide security
- Accelerate and scale your IIoT and analytics initiatives
- Improve communication between Operations and IT

Critical Features For Industrial DataOps

■ Data Modeling
Represent machines, products, processes, and systems with key intelligent information suited to your needs. Contextualize thousands of industrial data points by adding meta data, standardizing data attributes, and normalizing units of measure. Models are easily reused within a single hub and can be efficiently shared across hubs.

■ Data Transformations
HighByte Intelligence Hub includes a transformation engine based on JavaScript notation that allows data to be standardized and normalized for comparison and application mismatches. The transformation engine enables you to perform calculations, execute logic, and decompose complex strings at the Edge to improve data usability and reduce transmission volume.

■ Connection Flows
Create data flows for raw data or modeled information between connections at any frequency. Manage data flows within HighByte Intelligence Hub to identify, enable, or disable the flow of information to consuming applications.

■ Codeless Integration
HighByte Intelligence Hub collects data over OPC UA and provides information over OPC UA and MQTT—eliminating the need for custom-coded integrations. You can easily configure and manage multiple connections and their respective inputs and outputs within the script-free interface.

■ Security
HighByte Intelligence Hub exchanges data using the built-in security of OPC UA and MQTT. By identifying outputs by connection, administrators can implement higher-level management and security than typical pub/sub broker architectures and open, unmanaged API access.

■ Edge Native
HighByte Intelligence Hub can run on light-weight hardware platforms including Raspberry Pi and other single board computers, industrial switches, and other Linux, Windows 10, and Windows Server Platforms.

Next Steps
Interested in learning more? Please contact sales@highbyte.com to request additional information or schedule a demo.

About HighByte
HighByte is an industrial software development company in Portland, Maine building off-the-shelf software that solves data architecture and security challenges for Industry 4.0. We've developed the first DataOps solution purpose-built to meet the unique requirements of industrial assets, products, and processes at the Edge.
Learn more at highbyte.com.

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Technical Requirements
Connectivity
- OPC Unified Architecture TCP Binary v1.04 [inbound and outbound]
- MQTT v3.1.1 [outbound]

Operating Systems
- Windows Server 2012/2016
- Windows 8/10
- Linux [any Linux distribution capable of running a JVM; tested with Ubuntu]
- macOS

System Requirements
- Java SE 8
- HTTP Server [for hosting frontend]
- 1.4 GHz Processor
- 1 GB RAM
- 100 MB Available Disk Space
- Network Capable [TCP]

These are minimal system requirements. Actual requirements will vary based on product configuration.

Software Delivery
HighByte Intelligence Hub is an on-premises application configured remotely through a web browser or a REST-based API. The software is available by activating an annual subscription for a site license or a single hub.

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