

CEREXIO IOT INTEGRATION SYSTEM

The Cerexio IoT Integration System introduces a cohesive solution for the manufacturing domain, consolidating the infrastructure and processes under one stream to be connected, managed, and interpreted via a diverse range of embedded IoT devices and data through the framework driven by Industry 4.0 digital capabilities.

Cerexio solution marks its dominance in manufacturing by encouraging the smooth processing and transmission of raw data until it creates potent insights.



KEY HIGHLIGHTS

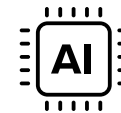
Production-centric Articulation through Scalable Data Streaming with Cerexio

Our system ensures the smooth processing and transmission of raw data to be interpreted into meaningful and scalable insights via Industry 4.0 digital strengths. Preventing communication fencing in manufacturing, Cerexio solution unsheathes the clouded essence of data.



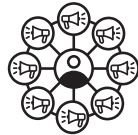
5G PIONEERED UNSHAKEN CONNECTIVITY

Cerexio IoT Integration System, unleashing the potential of Industry 4.0 capabilities, including Hadoop, Big Data, and 5G, to provide seamless connectivity in order to establish a comprehensive network binding various manufacturing aspects together.



AI-ENABLED POWERFUL INSIGHTS

Cerexio's integration with AI technology empowers manufacturers to utilise AI algorithms for instantaneous analysis of data streams, providing valuable insights into operational processes and building a unification of data as one manufacturing ecosystem to provide a singular vision.



DIVERSE COMMUNICATION PROTOCOL ENCOURAGEMENT

Stepping beyond the conventional barriers, our system presents a transformative solution for manufacturers, embracing Big Data technology to offer support for diverse communication protocols and standards, including MQTT, CoAP, HTTP, and proprietary protocols, etc.



MIDDLEWARE-POWERED COMMUNICATION ORCHESTRATION

Cerexio solution establishes a powerful intermediary layer between devices and applications in order to support data processing, storage, and communication orchestration throughout the entire data lifecycle, ensuring efficient streaming of data and its confidentiality.



ROBUST APPLICATION ENABLEMENT VIA DATA ANALYTICS

Our comprehensive Industry 4.0-driven end-to-end solution empowers vital components, including API management with access to IoT data, application integration for seamless connection with business applications, and the implementation of Analytics and Business Logic to encourage automated actions.



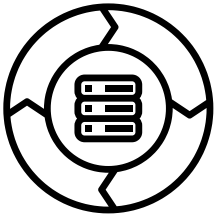
SMART DATA STORAGE

Cerexio IoT Integration System backs up data storage incorporating 5G technology, Streaming Data, and Hybrid Cloud solutions and empowers manufacturers with cutting-edge capabilities to facilitate unchallenged data gathering and storage, laying the foundation for advanced processing.

The Unshaken Integrity, Conspicuous Data Streaming, and Unlimited Resource Arcade: Cerexio IoT Integration System

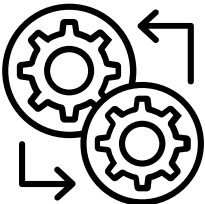
Cerexio IoT Integration System stimulates the continuous flow of data from diverse systems and devices, seamlessly processing and transmitting it to converge onto a singular dashboard for thorough analysis, providing enhanced manufacturing insights. With Industry 4.0 capabilities, the Cerexio solution acts as a unified force for consolidating all data requirements under one wing.

Data Lifecycle Management



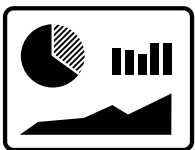
Cerexio IoT Integration System produces extensive real-time data streams, effortlessly integrated into a centralised system via embedded Big Data and Data Analytics. This supports the storage and processing of this substantial volume, extracting valuable information throughout the entire data lifecycle.

End-To-End Integration



Cerexio solution is dominated by Industry 4.0 advancements and permits effortless integration spanning traditional and modern manufacturing systems via robust APIs. Serving as a bridge between legacy systems and contemporary manufacturing technologies, it ensures seamless interoperability across the entire IoT ecosystem.

Flexible Web Dashboards



Our solution excels in providing adaptable web dashboards featuring an intuitive and user-friendly interface that allows the users to effortlessly add and manage devices, exercise control over IoT service access, and monitor usage, due to our platform's clean design and user-centric approach.

CEREXIO IOT INTEGRATION SYSTEM MODULES

Compatibility Optimiser



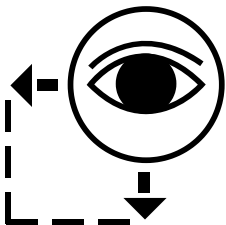
As the Cerexio IoT Integration System is highly compatible with internal and external manufacturing systems such as HVAC, Edge, PLC, MES, ERP, and more, it ensures the establishment of a full-scale manufacturing ecosystem through robust synchronisation with industrial automation processes, showcasing 100% efficiency.

Powerful Data Visualisation



Since our system is fueled by the robust capabilities of Industry 4.0 capabilities, it not only streams data but also presents it through robust visualisation techniques such as Digital Twin, AR & VR, and Hadoop via various dashboards, charts, and reports, ensuring that raw data is translated into meaningful insights.

Real-Time Tracking



Cerexio solution attains real-time tracking, delivering live updates and actionable insights through interactive dashboards, allowing relevant parties to monitor and respond promptly to unfolding events. Our system offers a comprehensive and timely overview of the status within the overall manufacturing IoT ecosystem.

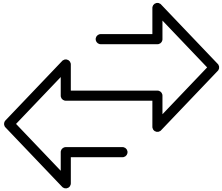
Responsive Communication Promise



The Cerexio IoT Integration System cultivates a responsive communication environment by swelling industry-standard protocols such as MQTT, CoAP, and HTTP. Through seamless integration with 5G connectivity. Our system ensures swift processing, transmission, and real-time comprehension of data, encouraging a responsive framework.

CEREXIO IOT INTEGRATION SYSTEM MODULES

Shielded Data Transmission



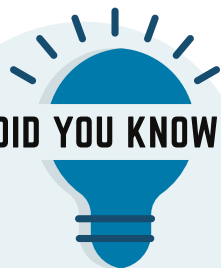
The Cerexio system guarantees secure data transmission by employing cutting-edge Industry 4.0 data protection technologies. Utilising robust encryption protocols, authentication mechanisms, and secure channels, the system prioritises the safeguarding of data integrity and confidentiality throughout the transmission process, from the initiation of data streaming to its end.

Smart Visibility into Malfunctionings



Cerexio IoT Integration System is powered by Predictive and Prescriptive Analytics, advanced features such as smart visualisation and alerting for communication errors between devices and the cloud, which ensure swift root cause analysis, significantly enhancing the resilience and responsiveness of the manufacturing IoT ecosystem.

DID YOU KNOW?

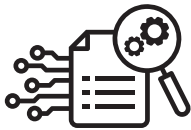


DID YOU KNOW THAT THE CEREXIO IOT INTEGRATION SYSTEM ALLOWS DARK FACTORIES OR 100% AUTOMATED SMART FACTORIES TO AUTOMATE THEIR MACHINES SEAMLESSLY WHILE MEETING SUSTAINABILITY STANDARDS SIMULTANEOUSLY?

BENEFITS

Enhance Systematic Visibility into Manufacturing Segments via the Best IoT Technology 4.0

Cerexio initiated our state-of-the-art IoT solution coupled with Industry 4.0 digital capabilities in order to enhance the manufacturing domain's vision and communication without getting interrupted by data streaming barriers. Our solution is here to ensure a smooth flow of data from one end to the other, offering deeper levels of understanding via technological advancements. The following are some of this solution's central characteristics:



CHANGE DATA CAPTURE

The Cerexio solution comes equipped with Change Data Capture (CDC), ensuring flawless data synchronisation to adeptly capture and identify real-time changes, facilitating rapid updates without causing disruptions to the overall system.



FUTURE-PROOF PREDICTIONS

Real-time data analysis and thorough historical event scrutiny, machine learning, and advanced algorithms to skillfully identify patterns and trends, providing invaluable and future-proof insights that boost the resilience of the entire framework.



REAL-TIME ERROR DETECTION

It incorporates the file watcher functionality, it can actively monitor file modifications and trigger events as needed, while its 'Anomaly Detection' feature employs various methods, including fixed rules, custom algorithms, and ML/AI models, to analyse streaming data.



FACILITATE WEBHOOKS

Enabling seamless integration with webhooks, the Cerexio IoT Integration System empowers users to connect with SaaS platforms that trigger events or orders employing WebSockets and MQTT, which guarantee real-time connectivity.



HUNDREDS OF PRE-BUILT INTEGRATIONS

An IoT system with numerous pre-built integrations, linking seamlessly with over 800 data sources through the connector library. This comprehensive approach facilitates plug-and-play connectivity, allowing for effortless integration with a wide array of data sources.



ROBOTIC AUTOMATION

Employ sophisticated algorithms, deep learning (DL), and machine learning (ML) to automate the collection, processing, and interactions within the system, creating a tightly glued ecosystem, which boosts efficiency.

INDUSTRIES

Cerexio IoT Integration System is a full-scale solution for the manufacturing domain's data integrity requirements and real-time data streaming gaps. Wrapped with Industry 4.0 capabilities, our solution offers scalability, visibility, transparency, and efficiency engines to expedite the overall production process. With this flexible strategy, we facilitate over 50 industrial domains to maintain coordination among various departments. Here are the top-most industries that use this solution:

- Aerospace
- Automotive
- Chemical
- Consumer Goods
- Electronics
- Food and Beverage
- Healthcare
- Logistics and Distribution
- Pharmaceutical
- Textile

CONTACT US

Don't Hesitate to Get in Touch With Us for Further Clarification or to Book a Demo This Week. The Contact Particulars of Our Company Are as Below:

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