



ZIGRON

*Connected
Application
Experts*

Datasheet

Zigron IoT & M2M Solutions and Services

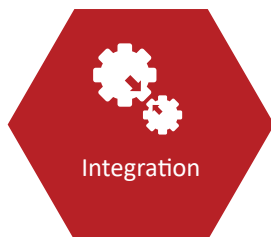
A Smart, Secure and Connected
Industrial World!



Zigron believes that the Industrial Internet of things can be defined as “Connecting intelligent physical entities such as sensors, devices, machines and products to each other, to the Internet services and to applications. The Industrial IoT architecture builds on current and emerging technologies such as mobile, wired and wireless networks, the cloud, Big Data, Analytics and visualization tools. The industrial IoT emphasizes remote access to connected machines and other devices to enable transformative business improvements and efficiency. Intelligent connected products, in turn help improve performance and reduce downtime through remote diagnostics, trouble shooting and condition monitoring capabilities.

All these approaches are aimed at improving unplanned downtimes, improve productivity and enable all connected assets to function in a more effective manner. For today’s high performing

Zigron brings the ideal blend of technology expertise (to develop/enhance products in IoT chain), domain expertise (for vertical solutions) and consulting expertise (for creating the right solutions with the right partner ecosystem). Our ability to integrate these solutions with business processes makes us the idea partner for creating end-to-end solutions. Our Expertise can be broadly classified into 7 areas:



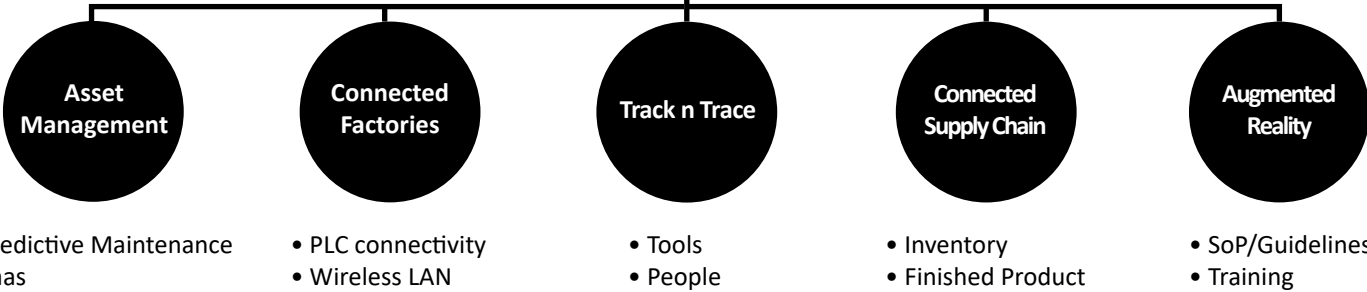
manufacturing firms, the ability to leverage this technology to improve profitability and revenue represents a challenge. Zigron is here to help!

Zigron works with all leading industry sectors such as Manufacturing, Automotive, Logistics and Transport, Consumer Goods and Energy & Utilities to help enhance their products and offerings alignment with the Internet of Things. We take pride in introducing the IoT ecosystem to a lot of companies and also have the capability to consult to help create the right solution to bring the benefits of IoT to your Organization. Our Services range from Designing Hardware devices, cloud enablement, mobility enablement, Engineering and Real Time Analytics and consulting to create end-to-end solutions. Our services also include managed Services via our SOC/NOC to ensure that the IoT infrastructure is up and running for the business.



Consulting & Solution Development	ISV/Platform	CSV/MONO/MVNO	OEMs/Device
<ul style="list-style-type: none"> • Business Solution with the right device and platforms to build a solution • Solution development enabling right analytics, mobile access, security, deployment • Integration of solution with business applications like SAP, SFDC etc. • UX services based on the end user analysis 	<ul style="list-style-type: none"> • Data Connectors to various mediums of communication • Development and verification of scalability, reliability and performance of the platform • Development of device deployment and management modules • Enhancement of the platform to vertically focused markets • Device monitoring and management 	<ul style="list-style-type: none"> • Build and maintain the IoT service enablement platform • Build domain specific solutions (SaaS) • Develop analytics on the usage patterns to come up with better IoT connectivity plans. • Build and integrate platform components 	<ul style="list-style-type: none"> • Device / Gateway hardware development / Re-engineering for low cost and low power consumption • Device firmware development for local processing and analytics • Server side / cloud platform development / integration via custom development or platform partnerships

Zigron is committed to delivering a customer experience which is smart, connected and secure. This would allow delivering services for making our environment, living and organizations smarter than what they are. Below are areas of our scope of Industrial IoT engagement.





Zigron IoT | M2M Partners

Zigron leverages Kaa IoT Platform, WEBNMS Symphony and Eurotech capabilities to help organizations drive higher ROI. We offer our best services for your IoT scenarios to capture and analyze untapped data that will transform your business.

Eurotech

Zigron's IoT ecosystem includes partnering with the Eurotech platform to provide the following IoT/M2M solutions and services:

- **End to End Solution (EDC)**

Enables you to make business decisions based on data coming from the intelligence at the edge of the network.

- **M2M Platform (EC)**

To simplify device and data management by connecting distributed devices over secure and reliable cloud services.

- **Device Application Framework (ESF)**

Easy to deliver not only latest generation Pervasive/Embedded Computer hardware platforms, but also to cost-effectively deliver all the fundamental components needed to quickly develop complex applications as part of the device software as well.

WEBNMS Symphony

Zigron partners with WebNMS to provide boundless opportunities for wireless OEMs. Help accelerate time to market using Zigron and the WebNMS framework for integration and application development using this bullet-proof platform.

Zigron has been in the IoT/M2M space for over 4 years, collaborated and developed key components of the WebNMS IoT Symphony platform:

- M2M protocols and interfaces.
- Northbound interfaces.
- Service communicators.
- User interfaces and panels.

KAA IoT Platform

Highly anticipated Industry 4.0 revolution is already underway reshaping manufacturing processes and the Industrial Internet of Things as a primary catalyst for this transformation. By using Kaa as an IoT platform Zigron provides endless industrial solution. Few of the things we can do with it are:

- Production Line Remote Monitoring
- Unified factory-wide interconnectivity
- Predictive maintenance
- Failure mitigation and safety control
- Gateway apps and edge analytics
- Centralized configuration data updates
- Workforce tracking
- Cloud-based data storage and analytics etc.

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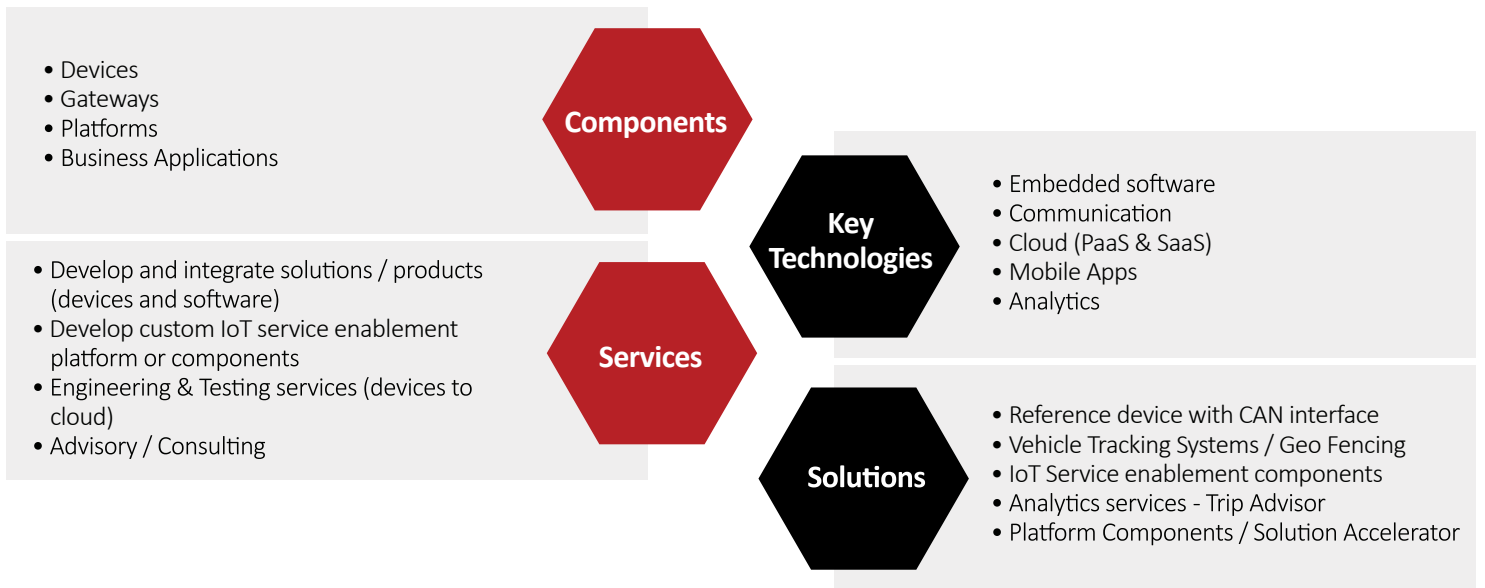
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Our Area of Expertise in IoT | M2M



Enabling M2M/IoT with Solutions and Services

M2M industry is an emerging industry where tremendous opportunities are available via M2M platforms, M2M devices and M2M management services. Zigron has the capability to work with product/platform companies to help enhance the products in the M2M ecosystem and has the capability to consult with the enterprises to create the right solution to bring the benefits of M2M to the enterprise.

Our Services range from Designing Hardware devices, cloud enablement, mobility enablement, Engineering and Real Time Analytics and consulting to create end-to-end solutions. Our services also include managed Services via our SOC/NOC to ensure that the M2M infrastructure is up and running for the business.

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Zigron brings the ideal blend of technology expertise (to develop/enhance products in M2M chain), domain expertise (for vertical solutions) and consulting expertise (for creating the right solutions with the right partner ecosystem). Our ability to integrate these solutions with business processes makes us the idea partner for creating end to end solutions.

Zigron leverages its thought leadership in the areas of Automotive / Telematics, Smart Homes, Retail, Manufacturing, Insurance, Banking and Consumer Electronics to create the right vertical solutions for the right enterprises.



Delivering Smart, Connected and Secure Customer Experience

Smart Environment

- Homes & Buildings
- Cities

Smart Living

- Personal Device
- Consumer Electronics

Smart Transportation

- Fleet Management
- Logistics
- Telematics

Smart Enterprises

- Retail
- Manufacturing
- Healthcare
- Utilities

- Business solution with right device and platforms to build a solution
- Solution development enabling right analytics, mobile access, security, deployment
- Integration of solution with business applications like SAP, SFDC etc.
- UX Services based on the end user analysis

Consulting and Solution Development

- Data connectors to various mediums of communication
- Development and verification of scalability, reliability and performance of the platform
- Development of device deployment and managed modules
- Enhancement of the platform to vertically focused markets
- Device monitoring

ISV/Platforms

OEMs/DEVICE

- Device/Gateway hardware development/ Reengineering for low cost and low power consumption
- Device firmware development for local processing and analytics
- Server Side/cloud platform development/integration via custom development or platform partnerships

CSP/MNO/MVNO

- Build and maintain the M2M service enablement platform
- Build domain specific solutions(SaaS)
- Develop analytics on the usage patterns to come up with better M2M connectivity plans



The Zigron portfolio of M2M solutions and services can be tailored to fit any horizontal of verticals of M2M technologies, be it hardware design, M2M platform, M2M service integration. There are quite a few solution accelerators which have been developed to ensure faster time to market for our customers.

