

## Raven and CoreTigo help manufacturers get the most out of their shop floor by making data collection easy and available from anywhere — even in the most challenging factory environments.



### Retrofit existing machines

With CoreTigo's IO-Link Wireless devices, retrofitting existing/legacy machines is quick and simple. Utilizing the machines' power sources, CoreTigo's devices connect and power sensors, making them virtually available for installation with minimal complexity and downtime.



### Drive process optimization and dollars

Raven combines and analyzes data from your operators and systems to provide a clear, contextual overview of all OEE losses, accounting for 100% of production time. This allows you to see how both people and machines spend their time on the floor — all the way down to the second.



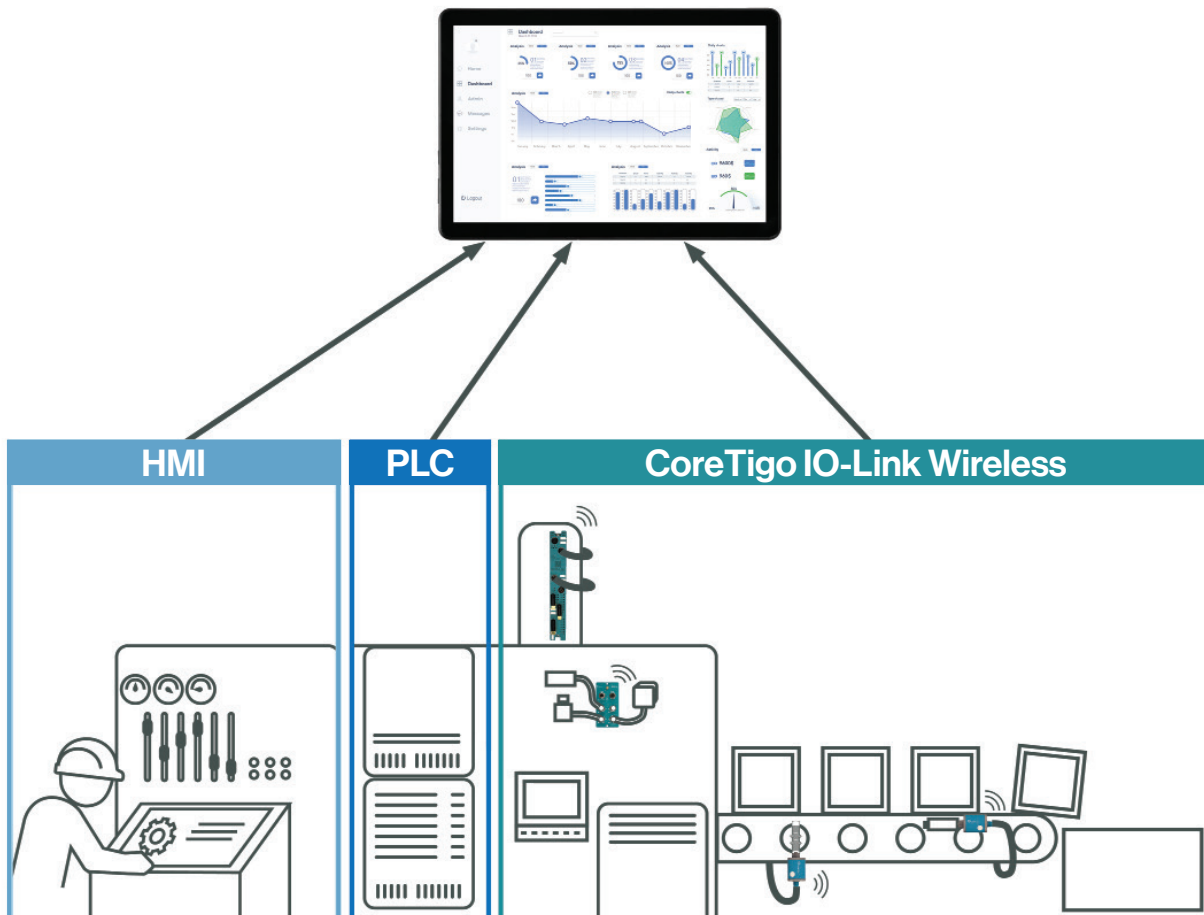
### Access data anywhere, any time

Complementing sensor, machine and operator data, CoreTigo IO-Link Wireless technology enables data collection anywhere on the line. With industrial-grade wireless connectivity, sensors can be installed in hard to reach places and on high-speed, rotating components — giving you a birds-eye view of your plant.



### Build your optimal tech stack

Raven and CoreTigo's digital solution connect to any sensors, IO-Link, Analog or Digital, making it possible to use a combination or all sensor types on one machine. Technology-agnostic means selecting the best devices for your goals and leveraging your own existing devices without having to compromise.



# Retrofitting Machines Made Simple

Conventional wireless solutions are not suitable for the harsh demands of factory environments, scalability to support hundreds of devices within a single machine area, and cable-grade reliability.

Raven's OEE software combined with CoreTigo's IO-Link Wireless provide manufacturers an industrial grade, cost-effective and scalable shop floor solution — a game changer in shop floor data collection and condition monitoring. In addition, it enables wireless communication both for control and monitoring, providing not just data collection but also control and actuation of devices.

## Solution Architecture

### Applications



Cloud and On-Premise Applications  
(e.g. OEE, IIOT and Analytics)

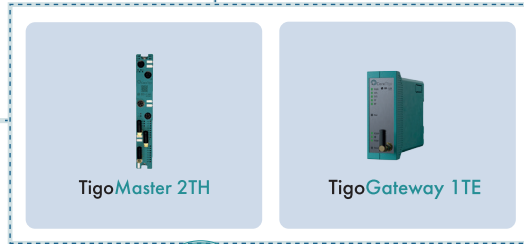
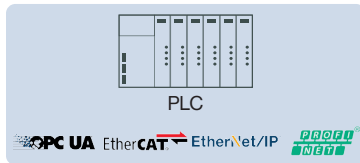
MQTT

### Software



Engineering Tool for IO-Link Wireless network setup and configuration. Secure MQTT publisher and data parser for IIOT applications.

### Control and Monitoring



IO-Link Wireless Masters and Gateways for wireless data collection from IO-Link Wireless devices. Communicates with both OT (PLC) and IT (OEE and IIOT Applications) layers.

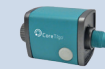
### Sensors and Actuators



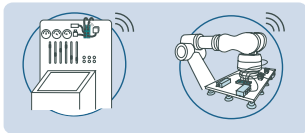
TigoHub



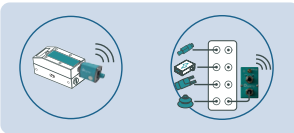
TigoBridge



TigoCounter



IO-Link Wireless Hub for multiple Analog, Digital and IO-Link Sensors



Immediate integration to off-the-shelf IO-Link, Analog and Digital Sensors



IO-Link Wireless Counter device connects to a Digital Output and enables Automated Object Counting capabilities

### About

Raven helps manufacturers empower teams to make confident, fact-driven productivity improvements in real-time. Raven's OEE improvement software is the only solution that accounts for 100% of production time, with meaningful context for every second. With its frontline-first design, Raven empowers operators to easily tag downtime reasons – only asking questions when machines don't have the answers. Raven combines operator and machine context to create a complete timeline of events, eliminating hidden losses.

### Contact

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[Book a Demo](#)