CoreTigo

WIRELESS INDUSTRIAL SOLUTIONS

SCALABLE
Factory-wide solution fit for 100's of devices per workcell and a broad range of applications

HIGH-SPEED MOTION SOLUTIONS
Fit for rotating and dynamic machine components

ULTRA-HIGH RELIABILITY
A million times more reliable than other wireless protocols

REAL-TIME CONTROL & MONITORING
Connect any actuator and sensor wirelessly at the lowest latency

INDUSTRY STANDARD
IEC-61131-9 designed for harsh industrial applications

IO-Link wireless

THE INTELLIGENT AND FLEXIBLE WAY TO OPTIMIZE YOUR FACTORY

APPLICATIONS AND USE CASES

CoreTigo enables faster and more flexible manufacturing by providing high-performance machine digitalization, wireless connectivity and edge solutions for machine builders, system integrators and industrial equipment manufacturers. Industrial-grade wireless communication is a key pillar of Industry 4.0 applications. It's about enabling more sophisticated transport and conveyer systems, real-time control and monitoring of rotating machinery, the ability to place sensors anywhere in the factory for real-time data collection, and more. It's about a truly intelligent production line that can take flexibility and agility to new levels, and further drive predictive maintenance and operational excellence.

CoreTigo's IO-Link Wireless solutions provide an OT level ecosystem that allows Machine Builders to design smarter machines, Device Manufacturers to unbind their sensors and actuators, and System Integrators to design and retrofit more flexible and more agile production lines. With cable-grade reliability, ultra-low latency and factory-wide scalability, CoreTigo's IO-Link Wireless technology and products are driving the broadest range of factory automation wireless applications which are already revolutionizing the Industrial world.

STERILE ENVIRONMENTS
· Reduce contamination concerns
· Enable automation operations
· Simplify maintenance and
  minimize cabling costs

RETROFIT & CONDITION MONITORING
· Simple and cost-effective deployment
· Rapid upgrade of existing production lines
· Reduce maintenance costs & unexpected downtime

ROBOTS/COBOTS
· Eliminate cables and cabling accessories
  along robot arms
· Increase flexibility and motion range
· Enable modular end-effector deployment
· Reduce complexity and cost

MACHINE OPTIMIZATION
· Efficient machine maintenance and fault analysis
· Adjustment and tuning of machine parameters
· Machine learning and artificial intelligence
· Operator advisor tools for smooth and
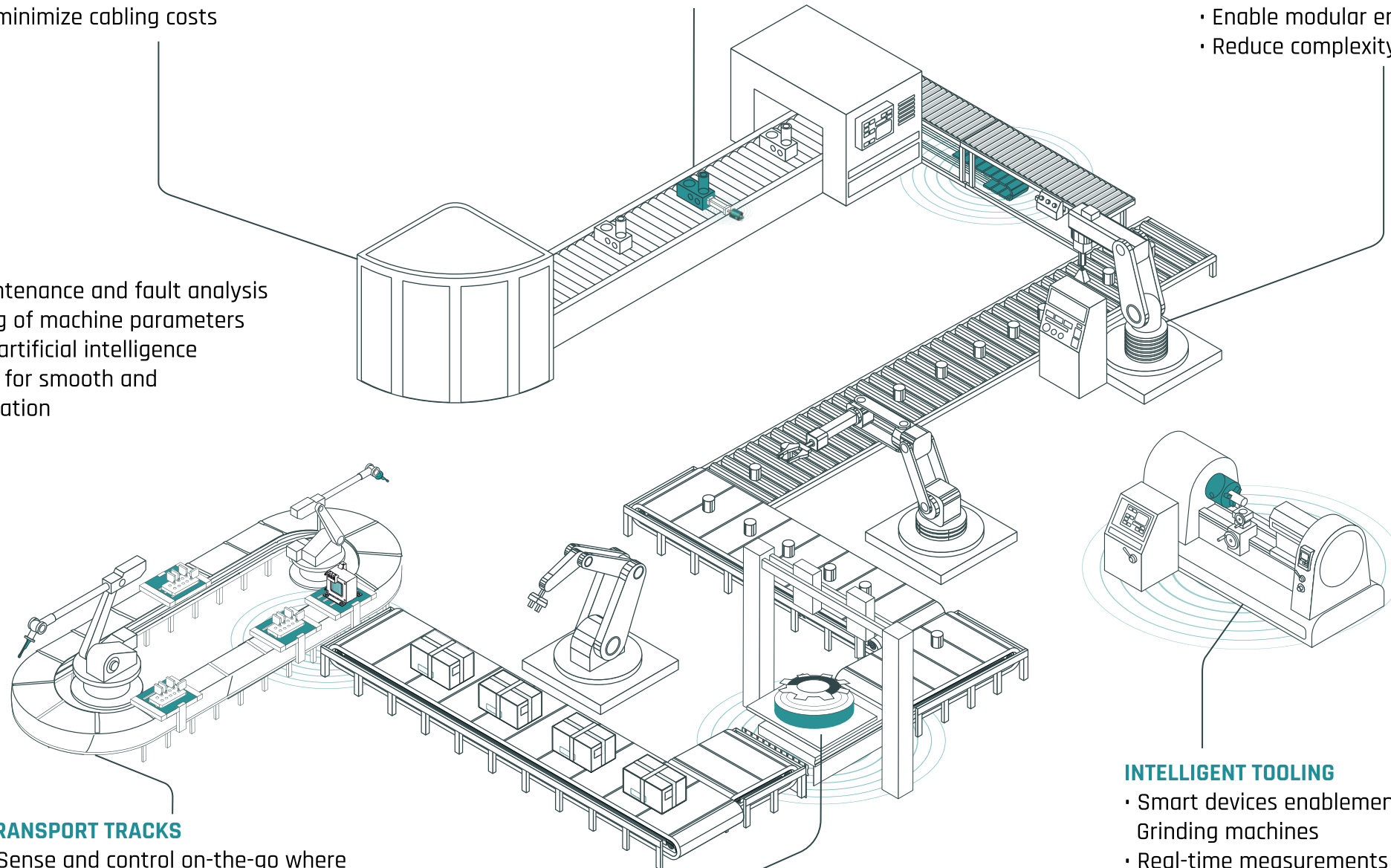 efficient machine operation

TRANSPORT TRACKS
· Sense and control on-the-go where
  cabling isn't possible
· Minimize changeover and setup time
· Maximize capacity and flexibility
· Reduce machine footprint and external
  automation equipment

ROTARY TABLES/CAROUSELS
· Simplify connectivity on rotating platforms
· Reduce maintenance and deployment costs
· Flexible configuration and setup

INTELLIGENT TOOLING
· Smart devices enablement on CNC, Milling and
  Grinding machines
· Real-time measurements during actual machining
  at the tooling point
· Precise machine tool setting, positioning and tuning
· Predictive maintenance and detection of defective
  tooling early on
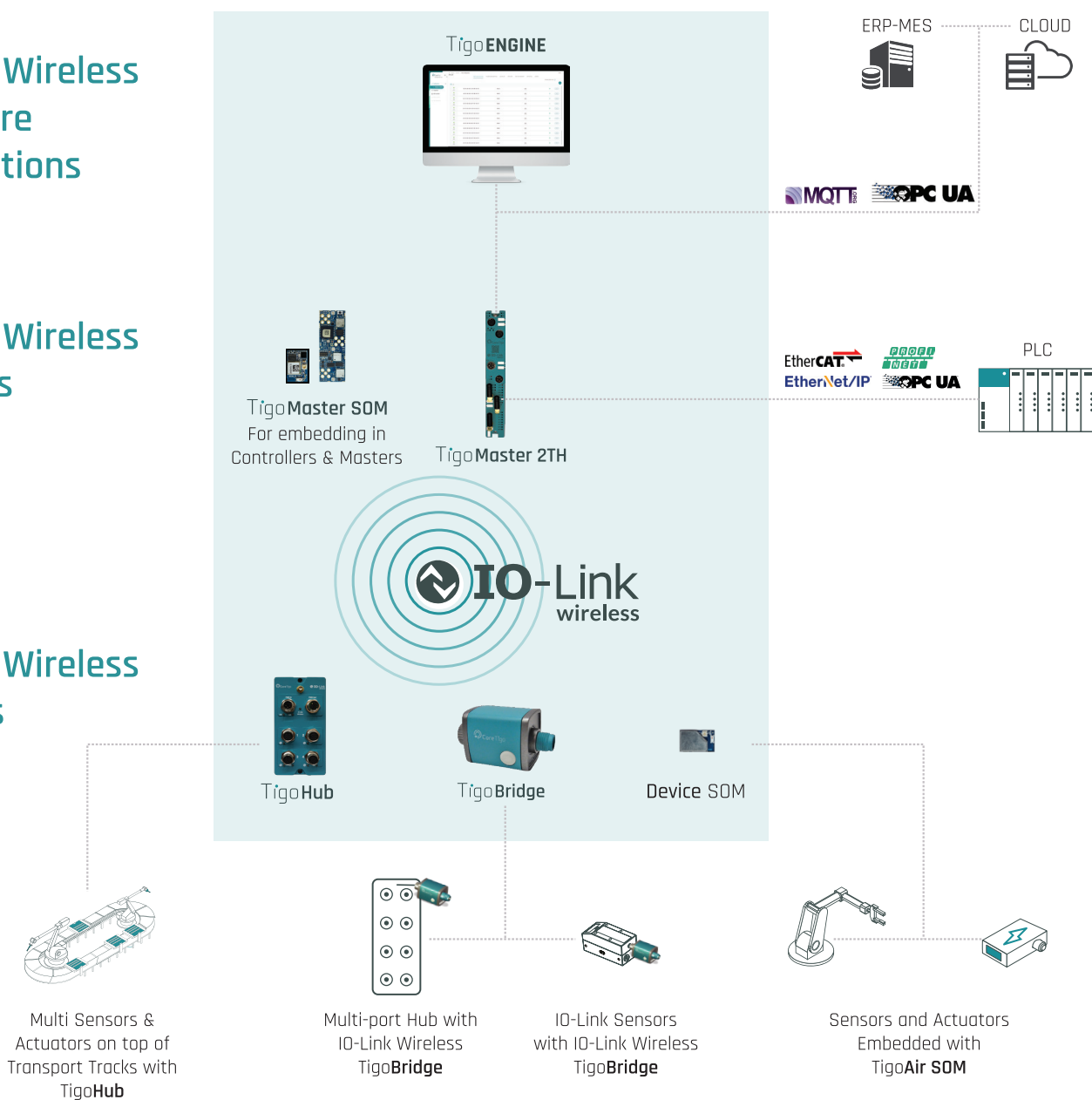· Improve safety, quality and traceability

IO-LINK WIRELESS ARCHITECTURE

IO-Link Wireless Software Applications

Tigo**ENGINE**

ERP-MES ⋯⋯ CLOUD

MQTT   OPC UA

IO-Link Wireless Masters

Tigo**Master SOM**
For embedding in Controllers & Masters

Tigo**Master 2TH**

EtherCAT.
Ether**N**et/IP
PROFINET
OPC UA

PLC

IO-Link wireless

IO-Link Wireless Devices

Tigo**Hub**   Tigo**Bridge**   **Device** SOM

Multi Sensors & Actuators on top of Transport Tracks with Tigo**Hub**

Multi-port Hub with IO-Link Wireless Tigo**Bridge**

IO-Link Sensors with IO-Link Wireless Tigo**Bridge**

Sensors and Actuators Embedded with Tigo**Air SOM**

⚡ RANGE OF POWER OPTIONS: Slip Rings | Inductive Power | Battery | 24V

CoreTigo enables faster and more flexible manufacturing by providing high-performance machine digitalization, wireless connectivity and edge solutions for machine builders, system integrators and industrial equipment manufacturers. CoreTigo's products enable the design and retrofit of machines and production lines that were not possible before. These solutions increase flexibility, adaptivity and modularity, resulting in cost effectiveness, increased productivity and downtime reduction. Embraced by industrial leaders, CoreTigo's solutions are based on the IO-Link Wireless global standard, which is fit for harsh factory environments and motion control applications, providing the most reliable wireless connectivity for millions of sensors, actuators and industrial devices worldwide.

IO-Link Wireless Starter Kits

TigoStarter Evaluation / Development Kits

TigoStarter Kits include all components required for setting up a quick IO-Link Wireless environment for evaluation and development purposes.

For further information, please contact us at:

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