CoreTigo

WIRELESS INDUSTRIAL SOLUTIONS

SCALABLE
Factory-wide solution fit for 100's of devices 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

Industrial-grade wireless communication is a key pillar for Industry 4.0 applications. It's not just about reducing the amount of communication cables, 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.

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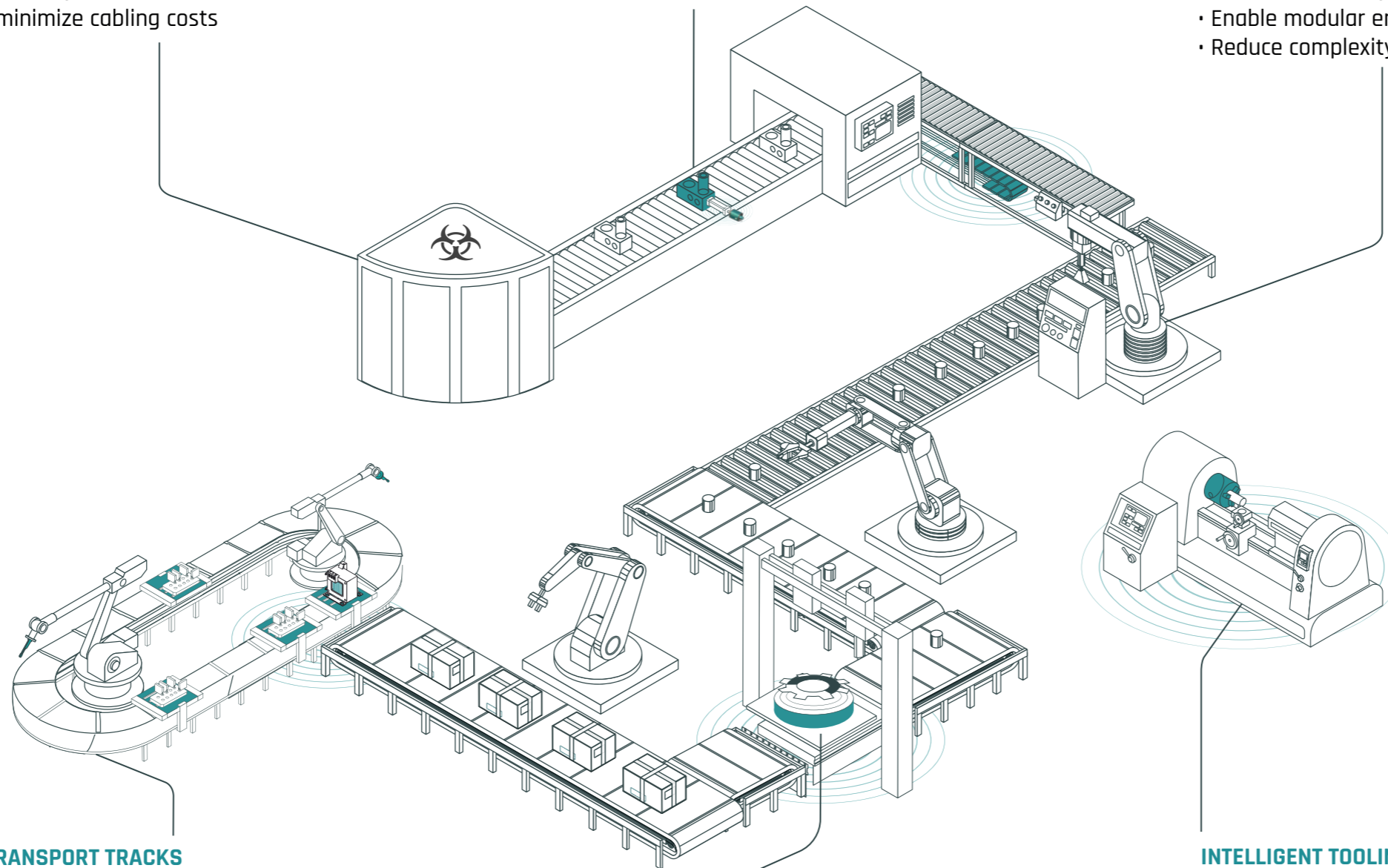· Simple and cost-effective deployment
· Rapid upgrade of existing production lines
· Numerous devices per machine
· Reduce maintenance costs & unexpected downtime

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

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

TRANSPORT TRACKS
· Sense and control on-the-go where
  cabling isn't possible
· Minimize changeover and setup time
· Maximize capacity and flexibility

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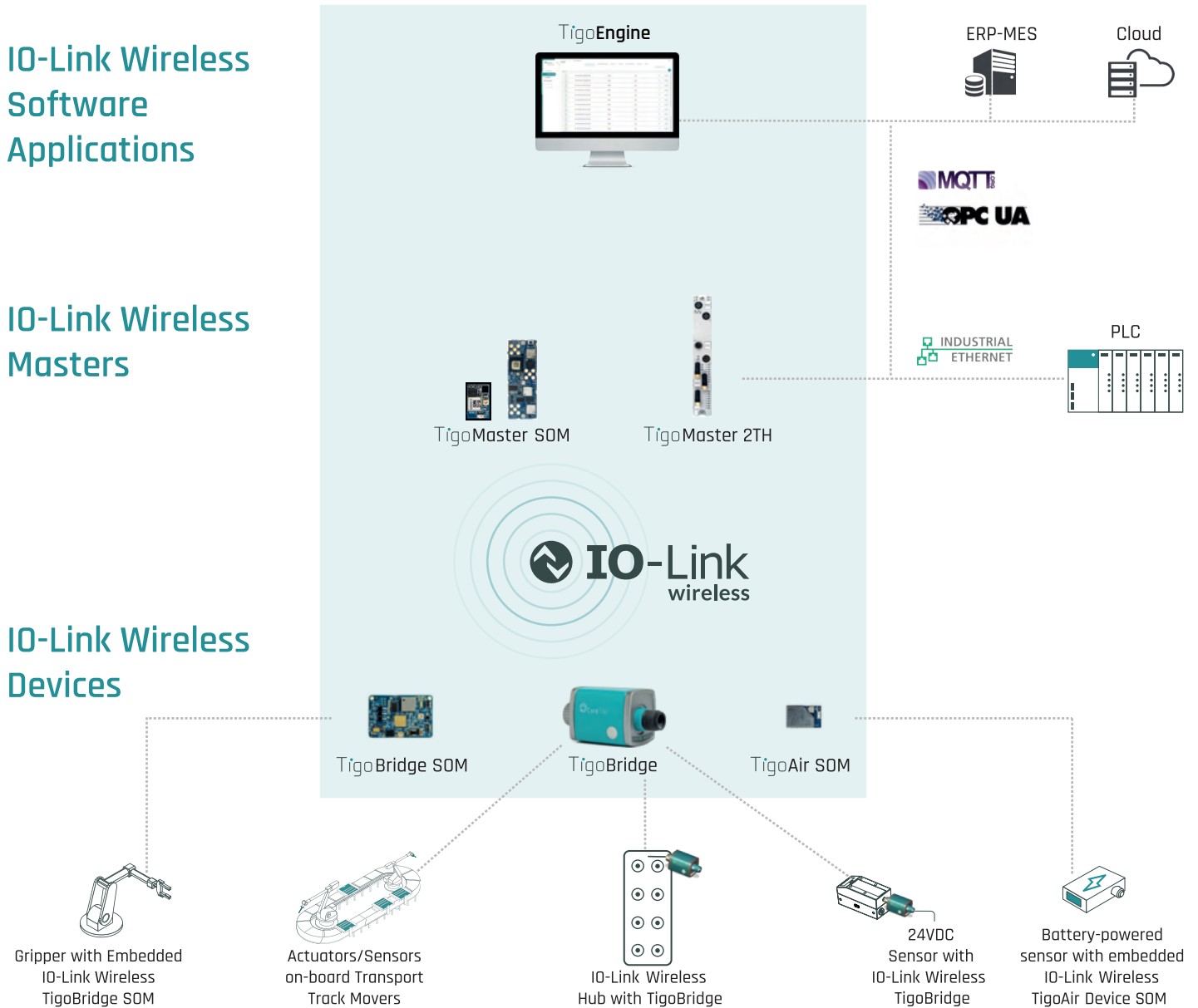· Flexible configuration and setup

INTELLIGENT TOOLING
· Smart devices enablement on CNC, Milling and
  Grinding machines
· Real-time measurements during actual machining
· Predictive maintenance of high-speed rotating tools
· Precise machine tool setting and tuning

IO-LINK WIRELESS ARCHITECTURE

IO-Link Wireless Software Applications

TigoEngine

ERP-MES

Cloud

MQTT

OPC UA

IO-Link Wireless Masters

INDUSTRIAL ETHERNET

PLC

TigoMaster SOM

TigoMaster 2TH

IO-Link wireless

IO-Link Wireless Devices

TigoBridge SOM

TigoBridge

TigoAir SOM

Gripper with Embedded
IO-Link Wireless
TigoBridge SOM

Actuators/Sensors
on-board Transport
Track Movers

IO-Link Wireless
Hub with TigoBridge

24VDC
Sensor with
IO-Link Wireless
TigoBridge

Battery-powered
sensor with embedded
IO-Link Wireless
TigoAir Device SOM

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

CoreTigo is unbinding the industrial space by providing high-performance IO-Link Wireless communication 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, the IO-Link Wireless global standard, fit for harsh factory environments and motion control applications, provides cable-grade 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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