

iCOMOX: Smart Maintenance Made Easy

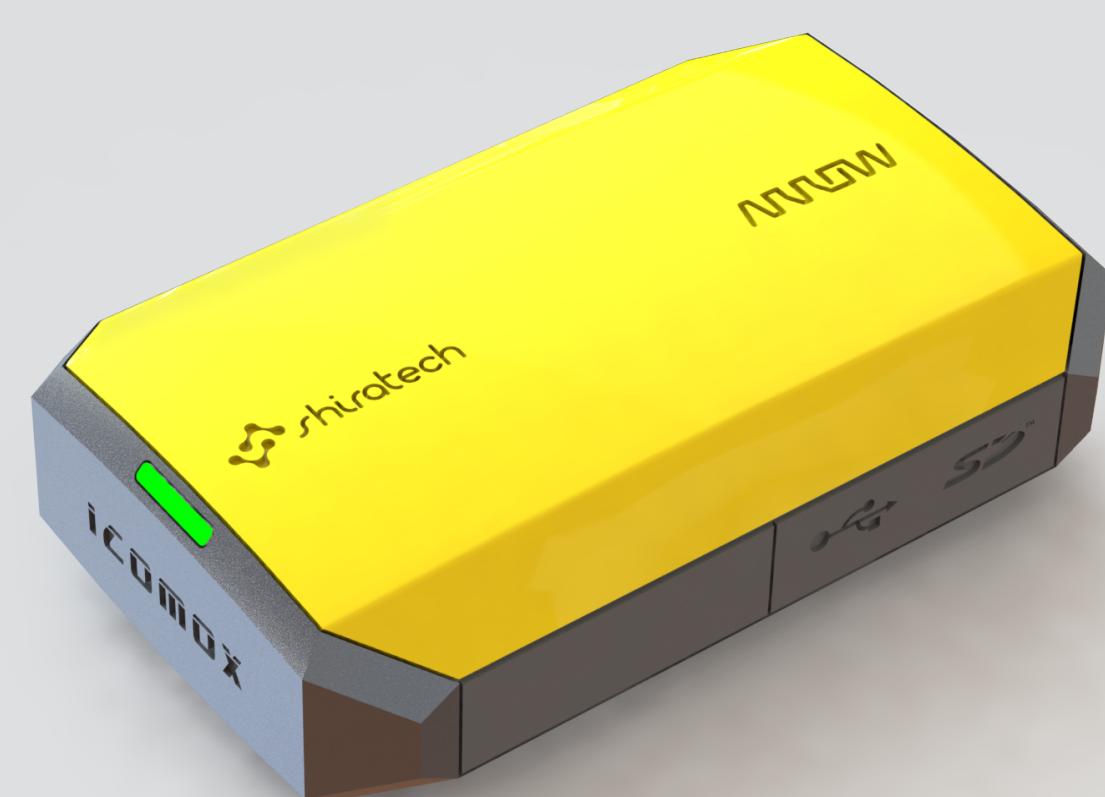


Smart Maintenance Made Easy

Unplanned equipment downtime causes significant disruption to operations and productivity which directly impacts a company's bottom line. This problem is further compounded with legacy equipment that are prone to frequent failures. Current inspection methods mainly involve maintenance personnel physically checking equipment on a periodic basis. This approach is resource intensive and cannot be scaled easily. Further, complexity and cost of repairs increase after equipment failures occur, compared to preventive measures.

Condition Based Monitoring (CBM)

CBM based maintenance monitors the condition of an asset continuously and detects early warning signals that point to upcoming failures. For example, excessive vibration, heat, and noise are early indicators for equipment failures. The goal of CBM is to proactively schedule maintenance before failures occur.



Uptime improvement and cost reduction are the two major value drivers for CBM adoption



iCOMOX: Intelligent Condition Monitoring Box

iCOMOX is an open development platform for Condition Based Monitoring (CBM) of industrial equipment, assets and structures. iCOMOX monitors operating conditions from the surface of the equipment to identify potential faults and reduce risks associated with equipment operation and maintenance.

iCOMOX Solution Benefits

- > Reduce equipment downtime with proactive maintenance
- > Extend asset life with real-time asset health monitoring
- > Streamline operations with remote management and automatic work orders for proactive repairs
- > Save costs by minimizing catastrophic failures and optimizing resource management
- > Easy to install, use and maintain with 99.999% wireless network reliability and minimum 5-year battery life
- > High ROI with minimal upfront investment
- > Enable digitalization of maintenance systems

Key Features

Hardware

- > Open embedded sensor-to-cloud platform
- > Multi-sensing: Vibration, magnetic field, temperature and sound sensors
- > Highly reliable wireless SmartMesh™ IP 2.4 GHz 802.15.4e communication even in tough industrial environments
- > Very compact form factor and various mounting adapters to accommodate a wide range of monitored equipment
- > CE and FCC certified with an IP66 enclosure

Software and Analytics

- > Embedded intelligence for early detection of machine failures in condition-based monitoring applications
- > Ability to configure warning and alarm levels and timestamp events for each sensor
- > Seamless integration into existing systems and to the maintenance portal
- > Artificial Intelligence enables predictive and smart preventive maintenance

Portal

- > Centralized management of all assets and related maintenance processes
- > Real-time reporting and dashboards for visualization
- > User-friendly interface that can be accessed from anywhere, via a computer or a mobile device

Use Cases for iCOMOX

- > Manufacturing facilities: Motors, pumps, gear boxes, etc.
- > Construction facilities: Drills, motors, heavy equipment
- > Buildings: Elevators, moving walkways, escalators, refrigeration, HVAC systems
- > Healthcare: Large medical equipment with motors
- > Oil & gas: Pumps, drills
- > Transportation: Fleet management
- > Structures: Bridges, towers, pipelines

iCOMOX: Intelligent Condition Monitoring Box from Arrow and Shiratech

- > Reduce equipment downtime with proactive maintenance
- > Extend asset life with real-time asset health monitoring
- > Streamline operations with remote management and automatic work orders for proactive repairs
- > Save costs by minimizing catastrophic failures and optimizing resource management
- > Easy to install, use and maintain with 99.999% wireless network reliability and minimum 5-year battery life
- > High ROI with minimal upfront investment
- > Enable digitalization of maintenance systems

Ordering information



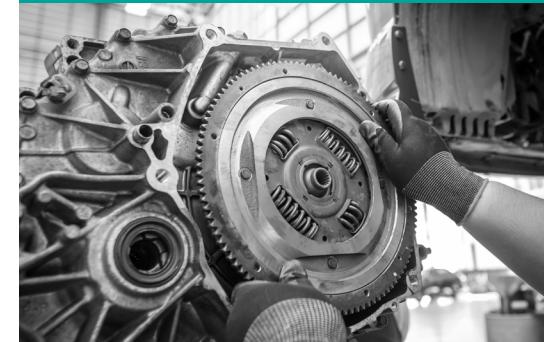
iCOMOX Part #: [SRT-COMOX-SM](#)



iCOMOX Evaluation Kit: [SRT-ICOMOX-KIT](#)



Bearings wear and tear



Misalignments and imbalances



Excessive vibration

Via Email
iot@arrow.com

Online
arrow.com/iot

Arrow
Five Years Out