

# Say goodbye to unplanned downtime

Nonstop, real-time, analytics-driven CNC machine condition monitoring at the edge



## The issue

Unplanned downtime is one of the biggest problems facing manufacturers - and too often, failing CNC machines are the culprits. After all, there are so many things that could go wrong, from problems with vibration and temperature to speed and machine displacement. Making matters worse, companies frequently discover these issues only after it's too late. The lag between the moment a machine first shows signs of potential failure and the time that it actually fails, potentially affecting the entire manufacturing chain, is critical. Similarly, planned downtime for maintenance that is ultimately unnecessary - often scheduled by calendar date rather than identified need - can lead to unwanted costs and delays as machines are brought offline to replace parts that are still functioning. Today, there's a better way.

## New technologies, new opportunities

There is growing, widespread acknowledgment among manufacturers that manual monitoring of CNC machines is insufficient for keeping CNC machines up and running, especially in light of major recent advances in automation, Internet of Things (IoT), edge computing, AI and analytics technologies. But while the promise of these advances is clear, many manufacturing leaders have been waiting to see proven, practical applications of these capabilities.



# Our approach

Building on years of experience working directly with manufacturers, we have developed a turn-key, on-premises CNC machine monitoring solution that delivers immediate value the moment it is activated. Not only is it powerful, but it's also intuitive and easy to use. This fully integrated single system, Edge MCM Quick Start, acquires and analyzes vibration data for proactive CNC machine maintenance using a bundle of advanced capabilities, including:

- **ADLINK Edge MCM (Machine Condition Monitoring) Platform:** Intel Atom® x7-E3950 Processor-Based Machine Condition Monitoring Device installed with ADLINK Edge™ IoT software enables real-time data streaming for processing and analysis at the edge or in the cloud.
- **SAS® Event Stream Processing:** Streaming analytics generates real-time alerts from events to inform real-time, intelligent decision making.

- **Built-in connectors to leading IoT platforms** (including Microsoft Azure) for running advanced machine learning analytics and AI workloads in the cloud and at the edge.
- **Intel processing** enables reliable real-time data streaming from the edge or in the cloud - at any scale.

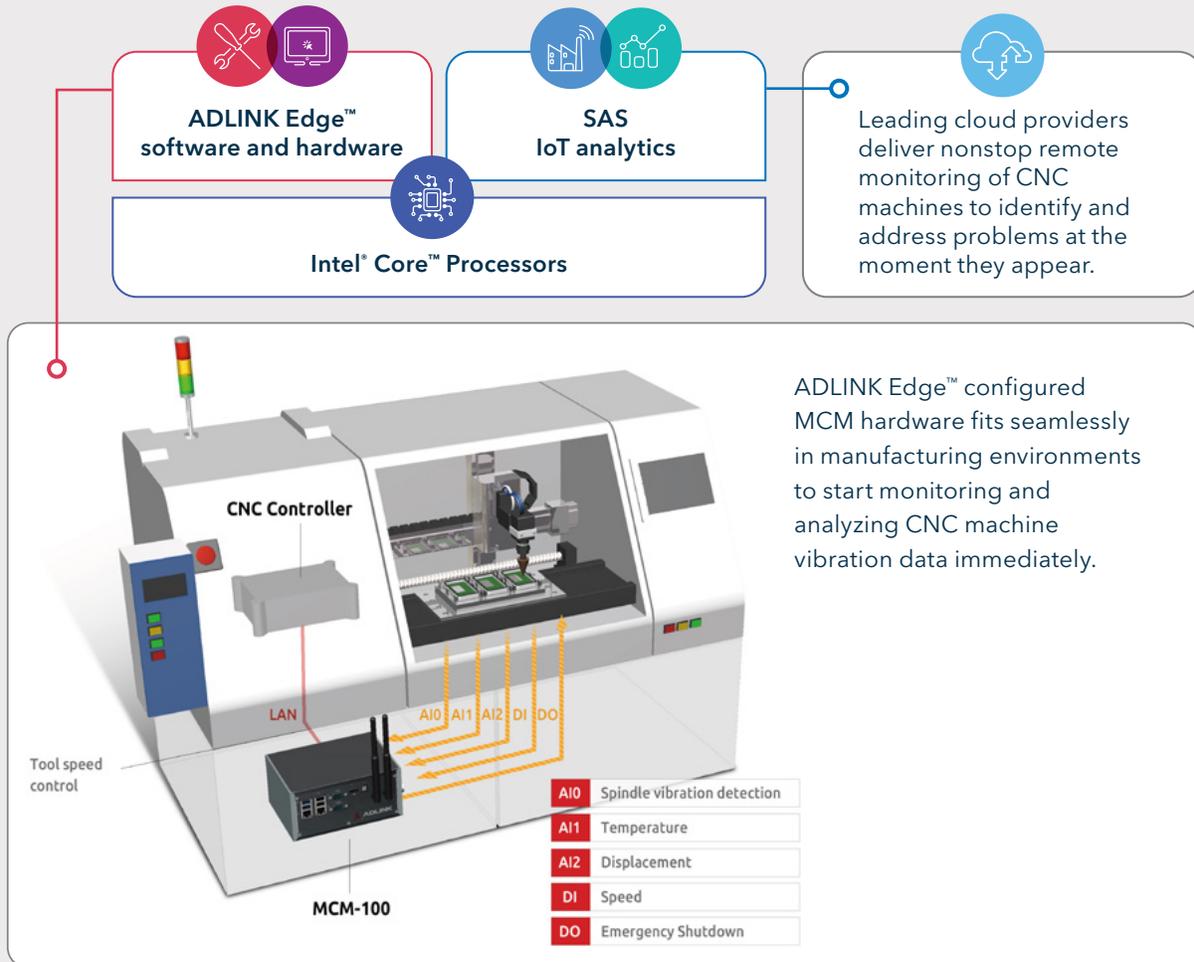
## Benefits

- Reduce unplanned downtime and opportunity costs.
- Eliminate manual inspections and manage assets remotely.
- Gain predictive insights with aggregated data over time.
- Future-proof systems that scale from simple monitoring to predictive analysis.

## A proven, turn-key solution

### Get the Real-Time Condition-Based Monitoring Starter Kit

The wait is over. Get this combination of tightly integrated, best-in-class technology in a single package that you can put to work today.





## Power of the PARTNER

### About SAS

SAS is the leader in analytics. Through innovative software and services, SAS empowers and inspires customers around the world to transform data into intelligence. SAS provides organizations with a practical approach for incorporating AI and analytics capabilities into organizational processes, resulting in superior customer experiences, operational agility, leaner processes and smarter use of assets. As the global leader in enterprise analytics, SAS is a proven partner for digital transformation that drives long-term growth and profitability. Since 1976 SAS has been giving customers around the world THE POWER TO KNOW.®

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### About ADLINK

ADLINK Technology is a global leader in edge computing with a mission to affect positive change in society and industry by connecting people, places and things with AI. Company offerings include robust boards, real-time data acquisition solutions and application enablement for AIoT. ADLINK serves vertical markets including manufacturing, communications, healthcare, aerospace, defense, energy, infotainment and transportation. ADLINK is a Titanium Member of the Intel® Partner Alliance, a partner of NVIDIA, and a contributor to standards initiatives such as Eclipse, OCP, OMG and ROS2 TSC.

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### About Intel

Intel, the world leader in silicon innovation, delivers hardware and software technologies to continually advance how people work and live. Intel technology is at the core of the digital transformation powering artificial intelligence, advanced analytics, machine and deep learning, big data and Hadoop workloads from the edge, cloud to on-premise. With a range of purpose-built solutions, Intel is helping businesses of all types and sizes drive innovation in a connected world.

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## Let's talk

Want to know more about how integrated CNC machine monitoring capabilities can help your manufacturing organization instantly identify maintenance issues remotely so that you can address them before they lead to unplanned downtime? The starter kit for real-time condition-based monitoring can help your organization get up and running fast - so that you can quickly benefit from these advanced, turn-key capabilities with minimal disruption to operations. You can install and manage this package on your own or work with distributors and partners who can do it for you. It all starts with a conversation, where we can learn about your specific challenges and discuss options for moving ahead.

To start the conversation, please contact Dan Marks at SAS at [Dan.Marks@sas.com](mailto:Dan.Marks@sas.com), or Daniel Collins at ADLINK at [Daniel.Collins@ADLINKTech.com](mailto:Daniel.Collins@ADLINKTech.com).

