Product Sheet

ONE Tech, Inc
MicroAI™ Atom

YOUR PATHWAY TO HIGHER OPERATIONAL AWARENESS

KEY BENEFITS

FLEXIBILITY & SCALABILITY: MicroAI™ Atom can be applied as a single entity on a single device or scaled to include application to an entire device ecosystem.

COST: MicroAI™ Atom is more cost effective than traditional microcontroller-based solutions that live on the edge.

SPEED & AGILITY: MicroAI™ Atom provides asset performance insights at speeds and efficiencies that produce real operational value.

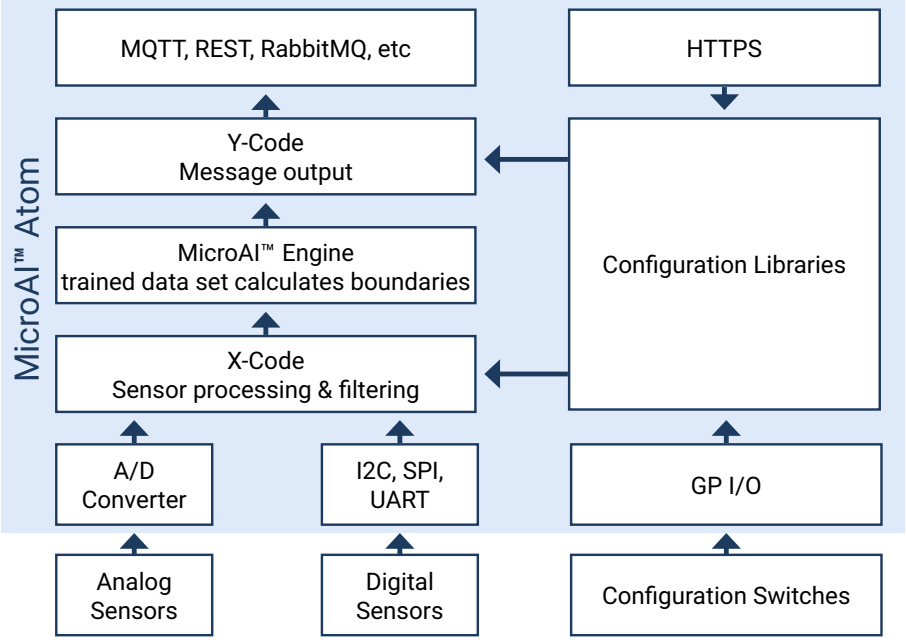
SECURITY: MicroAI™ Atom increases visibility into the health and performance of your devices, with real-time behavior analysis and response.

RELIABILITY & PREDICTABILITY: MicroAI™ Atom can perform cycle time optimization to increase productivity, provide longer asset life cycles and optimize asset performance

MicroAI™ Atom OVERVIEW

MicroAI™ is a self-correcting, semi-supervised learning engine that aggregates data from internal device sensors, to tune itself to create a 360 degree view of asset behavior - delivering performance improvements and security enhancements to any device.

MicroAI™ Atom brings big infrastructure intelligence down into a single piece of equipment or device. Unlike traditional AI device management solutions that rely on edge-based microcontrollers, MicroAI™ Atom is deployed directly onto your smart devices and sensors. MicroAI™ Atom operates within the small environment of the device itself, providing a more efficient method for performing asset analytics and generating real-time alerts. Atom generates real-time insights optimizing asset performance while simultaneously enhancing security oversight. An intimate, local approach to device management that provides a host of operational advantages.



Your products run MicroAI™ directly by pulling data from embedded sensors connected to a microcontoller unit or microprocessor inside the asset.

ABOUT ONE Tech

Based in Dallas, Texas and founded in 2018, ONE Tech is an award-winning, AI-driven technology company that designs, develops and deploys next-generation IoT solutions for OEMs, network operators and enterprises.
A joint venture of Systena America and Plasma, ONE Tech's proprietary algorithms power our MicroAI™ solution, which is small enough to live on a connected device. ONE Tech is redefining artificial intelligence at the network edge, delivering powerful edge AI and machine learning solutions that help enterprises and industrial companies achieve deeper insights into the behavior of machines and processes within their organization. ONE Tech's MicroAI™ technology curates raw IoT data on the network edge rather than in the cloud, helping companies discern valuable data and quickly spot anomalies by triggering actionable insights and alerts. Devices are trained in the local environment, allowing for personalization while providing the highest levels of security and privacy.

With deployments in industries such as oil and gas, manufacturing, agriculture and telecom, our solutions help companies optimize the performance and security of their assets in a highly-connected world.

www.onetech.ai

advisor@onetech.ai

+1 (800) 852-0927

ONE Tech, Inc
Optimizing Enterprises and Asset Performance Through AI-Driven Automation

TRAINING AT THE EDGE

MicroAI™ Atom is uniquely designed to train at the edge. Most vendors within the space deploy AI models that are trained in a cloud environment and pushed down to the edge locations. This means that each asset out in the field utilizes the same model. However, no two assets will always be operating under identical conditions. Those assets may be the same make and model but they may be performing completely different tasks while operating in different geographic locations within completely different environmental conditions. This is why MicroAI™ Atom is built and designed to train and process this individual data at the edge.

The use of MicroAI™ Atom allows for massive amounts of data to be captured and analyzed without the need of shipping across network communication protocols, or storing in cloud infrastructure. For example, if an asset has 10 unique sensor values being generated every second, over the course of a single hour, 360,000 data points are being generated. If this solution were to scale to hundreds and data is pulled at a faster rate than once per second, millions of data points are generated daily. With MicroAI™ Atom, only processed data created via the MicroAI™ behavioral analysis algorithm, are output.

RESULTS FROM MicroAI™ Atom

- Detect performance issues by analyzing behavior in real-time and respond before they cause catastrophic operational downtime
- Optimize the maintenance schedule to avoid unnecessary machine servicing
- Faster identification & remediation of critical issues for higher operational uptime
- Increase hardware reliability and productivity
- Gain a greater visibility into device performance, enabling product development to plan future improvements
- Prevention of unauthorized device access
- Real-time detection of abnormal network behavior
- Communication protocol verification and anomaly detection
- Predictive analytics to foresee - and prevent - unwanted variability

BENEFITS TO ENDPOINT AI

Security

MicroAI™ Atom trains in the local environment, eliminating the need to ship data to the cloud. It allows equipment to form models at their deployed locations, to deliver real-time analytics and alerts with the highest correlation to their specific tasks.

Low Cost of Ownership

The owners of legacy or new equipment can deploy MicroAI™ Atom to gain predictive modeling and allow assets to alert on upcoming issues. Output can be sent to your choice of data analysis platform, locally or to the cloud.

Utilize Virtually Any Data

Leverage data that comes from a variety of IoT sensor values. MicroAI™ Atom is agnostic to sensor values. It will create a multi-variant model that utilizes AI inference analysis to generate a wide range of predictive analytics.

Intelligence at the Source

MicroAI™ Atom utilizes multidimensional behavioral algorithms to produce recursive analysis, training, and processing. This enables a continuous evolution of the AI model that takes place directly on the endpoint. Manufactures are able to offer differentiated product solutions.

TECHNICAL INQUIRIES

Visit www.onetech.ai to access to our SDK.
Send all technical inquiries to: support@onetech.ai