

# Real-Time Asset & Operations Management on the Factory Floor



## Advantech + Raven.ai Solution Revolutionizes Factory Process Improvements with Edge Intelligence and Data Contextualization

In manufacturing, manual data entry is often time-consuming and unreliable. It may be missing important context or include human error, leading to inaccurate information. Advantech and Raven.ai, leading provider of data contextualization software, now offer a joint smart factory solution for manufacturers and systems integrators to quickly and reliably deploy edge technologies and analyze data for business intelligence.

The Advantech + Raven smart factory solution is specifically designed to pave the way for **operators and frontline staff to be proactive in factory edge applications and asset management**. The combination of IoT systems, edge devices and automated contextualization means frontline teams have the right hardware and technology to capture shop floor data with context.





The Raven all-in-one communication protocol provides a comprehensive range of features, including

real-time data collection and visualization, production status tracking, quick asset allocation and reallocation, proactive alerts and advanced edge analytics.

**With real-time reporting and data visualization**, organizations can account for 100% of production time and losses. New insights are uncovered through contextualized data, opening the door for significant productivity improvements and optimized processes. Real-time data drives improvements in every shift.

Featured Advantech hardware devices for the combined solution include various intelligent panel PC options and edge devices, including the UNO-2271G-V2, a small, form-factor industrial edge IoT gateway. Advantech touch-panel PCs enable real-time monitoring and simultaneous computing, storage, notifications and dashboard visualization.

### Compatible HMI & Panel PC Solutions

PPC-415 15" TGL Panel PC	TPC-315 15" TFT LED LCD Touch Panel PC	UTC-515H 15.6" All-in-one Computing System	PPC-100 Series RISC-based Android Panel PCs
Intel® 11th Gen Core™ i7/ i5/i3 processor	8th Gen. Intel® Core™ i3/ i5/ i7 Processor	Intel® Core™ i3-8145UE processor	Powered by a Rockchip RK3399 SoC and Mali-T860 GPU
			 15.6" (HD or FHD) or 11.6" panel

## Industrial Edge Hardware Solutions

### UNO-2271G-V2 Intel-based Edge IoT Gateway



ADVANTECH

- Pre-certified with Microsoft Azure Edge & AWS IoT Greengrass
- Secure orchestration between cloud services and edge devices
- Supports Win10, Ubuntu Classic and Ubuntu Core 20

### WISE-4200/4400 Wi-Fi I/O Modules



ADVANTECH

- Supports 2.4/5GHz dual-band concurrently
- Data logger and data resume functions make zero data loss during on-line, off-line and power off situations

### WISE-4610 LoRaWAN I/O Module

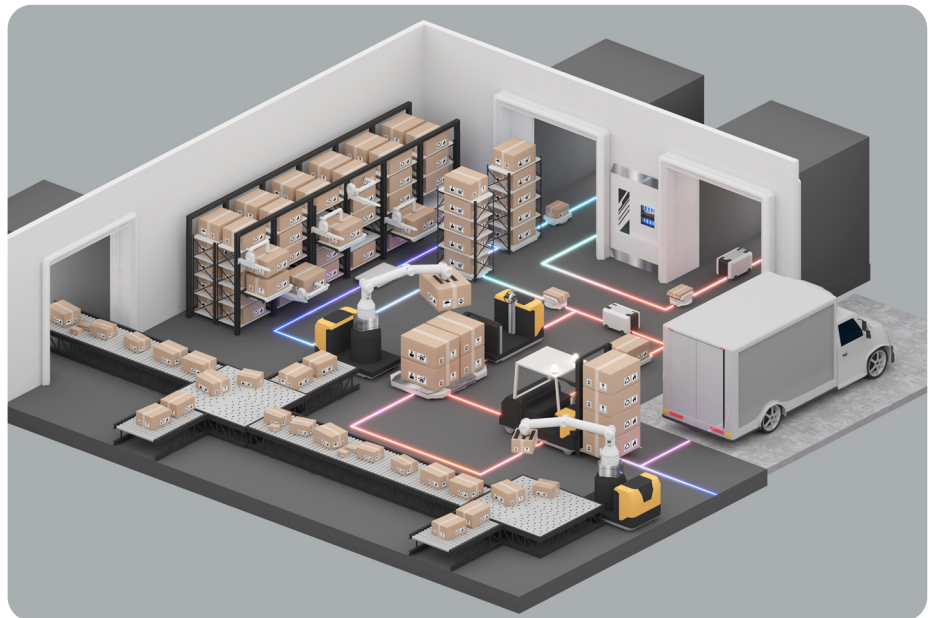


ADVANTECH

- Wireless sensor node based on LoRa network technologies
- Longer communication range
- Better penetration through concrete and steel
- Long battery life

## Return on Investment with Frontline Insights

- For customers starting at 40%-60% Overall Equipment Effectiveness (OEE) > can see up to **12% increase in OEE** in first year with Raven
- For customers starting at 60-80% Overall Equipment Effectiveness (OEE) > can see up to **8% increase in OEE** in first year with Raven



# RAVEN

Trusted by leading manufacturers:



The Advantech and Raven teams each have more than 40 years of experience in their respective fields. The solution focuses on getting frontline teams the right hardware and technology to capture important human context and shop floor data, view real-time insights and take actions to drive improvements in every shift. To learn more, visit the Raven website at <https://hubs.ly/Q01THMNJ0>.

## ADVANTECH

Enabling an Intelligent Planet

### Contact Advantech

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OR contact your sales representative



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