DAIM TECHNOLOGY × intel

AI Orchestration for Multi-Vendor Factory Logistics Robots

xMS with Factory AI Agent



*xMS by DAIM Technology enables **AI-driven orchestration** of multi-vendor logistics robots through a unified fleet management platform.*

xMS with Factory AI Agent by DAIM Technology is an on-premises platform that orchestrates heterogeneous logistics robots, including AGVs, AMRs, and OHTs, alongside ports, lifts, and doors as a unified fleet across semiconductor, battery, and automotive manufacturing environments. The solution integrates with existing robotic infrastructure without requiring hardware replacement. Reinforcement learning algorithms predict congestion, dynamically reroute robots, and prevent deadlocks, improving robot productivity by more than 20%[1] through software optimization alone.

Running on Intel® Core™ Ultra processors (Series 2) and Intel® Arc™ Pro B-Series graphics, xMS uses vLLM with OpenVINO™ toolkit to power an LLM-based HMI, RAG knowledge assistant, and voice controls, enabling operators to interact with factory operations using natural language while keeping data processing local and secure.

[1] Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.

intel ai
Intel® AI Edge Applications

Key Intel-Enabled Features

Local LLM Inference | Knowledge Assistant | Hands-Free Voice AI | LLM-Powered HMI

- vLLM with OpenVINO™ toolkit runs the Factory AI Agent LLM on-premises at the edge, enabling low-latency AI interactions without cloud dependency.
- Intel® Arc™ Pro B-Series graphics accelerate LLM inference to support responsive HMI interactions and real-time operator assistance.
- Intel® Core™ Ultra processors (Series 2) run xMS fleet orchestration, RAG knowledge retrieval, and AI agent services on a single edge platform.
- Local Intel-powered edge inference keeps operational and voice data on-site, supporting secure factory operations without requiring cloud connectivity.

By leveraging Intel® technologies, xMS by DAIM Technology addresses congestion, deadlocks, and throughput losses caused by siloed control systems across multi-vendor AGV, AMR, and OHT fleets.

Ordering Guidance:

- Contact Us

Country/Geo: Worldwide

Edge Verticals: Robotics

Edge Use Cases: Collaborative Robot; Automated Guided Vehicle; Autonomous Mobile Robot; Vision Guided Robots; Stationary Robots; Humanoid Robots

Learn more:

- Daim Technology Website

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