

AI-Powered Embedded System for Autonomous Mobile Robots



QBiX-Pro-ARUA255H-A1

GIGAIPC™ x intel®

Engine for Intelligent Warehouse Robotics powered by Intel® Core™ Ultra processor (Series 2)

Autonomous Mobile Robots (AMRs) in smart warehouses face a critical challenge: they must process complex sensor data for safe navigation while maximizing battery life for longer operation shifts. The [QBiX-Pro-ARUA255H-A1](#) addresses this by integrating the Intel® Core™ Ultra processor (Series 2) with both powerful Performance-cores (P-cores) and flexible Efficient-cores (E-cores), allowing the system to handle demanding tasks and background processes simultaneously.

The system significantly reduces power consumption compared to traditional solutions. This ensures robots can make split-second safety decisions locally without cloud latency. With its compact, vibration-resistant design and rich connectivity, the QBiX-Pro-ARUA255H-A1 provides the ideal balance of performance and efficiency, empowering the next generation of logistics automation.



Key Features



High-Speed
Processing



Instant Obstacle
Sensing



Latency-Free
Perception



Compact Vibration-
Resistant Design

intel ai

Intel® AI Edge Systems

Intel Products & Technologies



[Intel® Core™
Ultra Processors](#)



[Intel® Arc™
Graphics](#)



[OpenVINO™
Toolkit](#)

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