

YASKAWA ELECTRIC ELEVATES INDUSTRIAL ROBOTS WITH AI AND AUTONOMY

Powered by NVIDIA Jetson and Wind River Linux,
the Next-Gen Industrial Robot Reaches New Levels of Capability

THE OBJECTIVE

Yaskawa Electric is a leading manufacturer of servo motors, AC drives, and industrial robots. To develop its new product, MOTOMAN NEXT, Yaskawa needed a platform that could autonomously adapt to its environment and make judgments using advanced AI capabilities.

HOW WIND RIVER HELPED

A platform for edge AI, embedded, and robotics applications, NVIDIA® Jetson provides scalable software, a modern AI stack, production-ready ROS packages, and application-specific AI workflows. It can share AI software and cloud-native workflows while delivering the power-efficient performance required for building software-defined autonomous machines and breakthrough edge AI solutions.

Wind River® Linux is used in the MOTOMAN NEXT autonomous control unit, running on NVIDIA Jetson. The combination of Wind River Linux and the NVIDIA Jetson platform enables advanced-AI edge applications.

THE RESULT

MOTOMAN NEXT is powered by NVIDIA Jetson and Wind River Linux to realize new levels of intelligence and autonomy. It can handle challenging tasks in unstructured environments, driving automation into new application areas that previously were challenging to automate due to the need for human-level perception and judgment capabilities.



Wind River is a global leader of software for mission-critical intelligent systems. For 40 years, the company has been an innovator and pioneer, powering billions of devices and systems that require the highest levels of security, safety, and reliability. Wind River offers a comprehensive portfolio of software and expertise that are accelerating digital transformation across industries.