

# YASKAWA

The Intel logo is positioned in the top right corner of the header image. It consists of the word "intel" in a white, lowercase, sans-serif font, with a registered trademark symbol (®) to its upper right. The background of the header is a dark blue field with a network of glowing blue lines and dots, forming a stylized, abstract shape that resembles a robot or a complex circuit board.

## Using Intel® FPGAs for Servo Control and Functional Safety in High-Performance Robot Controllers

Yaskawa Electric is a major manufacturer of industrial robots. The company's 6-axis vertical articulated robots, are marketed worldwide under the Motoman brand for a wide range of uses. Seeking greater performance and precision, Yaskawa Electric chose to adopt a number of Intel® FPGAs for applications that include robot control, servo control and functional safety. By adopting the Intel Functional Safety Data Package, they have also reduced the amount of work required to obtain functional safety certification. For Yaskawa Electric, the main benefits of using Intel FPGAs are higher servo control performance and lower power consumption, consolidation of safety standards, cost reduction, long product availability and improved development timeline.

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