

Fusion.IO™ Integrated EtherCAT® I/O Controller

STATE-OF-THE-ART, MULTI-CHANNEL I/O CONTROLLER

SCOTTS VALLEY, CA, June 15, 2018 - Digital Dynamics, Inc. (DDI) manufacturer of state-of-the-art I/O controllers for the semiconductor tool industry announced the rollout of their Fusion.IO Integrated EtherCAT I/O Controller for embedded machine control applications. Typical applications include automation of semiconductor and photovoltaic wafer fabrication tools, metrology systems and medical manufacturing equipment. The Fusion.IO Controller offers high channel count, hardware interlocks and EtherCAT connectivity in one low-cost package.

“The Fusion.IO Controller was the result of customer requests for an I/O controller utilizing the advanced technology of our EtherCAT SuperIO Controller® but in a single enclosure form factor,” said Ray Gorski, Vice-president of Sales and Marketing at DDI. “We were able to significantly reduce the price of the system, while allowing for future expansion via SuperIO’s Remote Interface Modules (RIMs).”

SuperIO RIMs are extremely fast I/O subsystems configured to support customer-specified sensors and actuators throughout the controlled equipment and are available in various sizes. Each expansion RIM can be configured with multiple plug-in I/O cards specifically designed for machine control applications. The cards support high-resolution analog and fast digital I/O as well as precision temperature measurement and serial bus communications to smart devices.

The Fusion.IO Controller complements an EtherCAT network by providing fail-safe, hardware-based interlocks and high-speed embedded control. Up to 1000 mixed-signal inputs and outputs can be simultaneously controlled and monitored with sub-millisecond response times. The EtherCAT host computer is thus unburdened from high speed control sequencing, interlocks, and data collection tasks.

In addition, the system can parse through collected data and notify the host when certain thresholds are reached. Event timing is synchronized with the EtherCAT clock to maintain a high degree of simultaneity with low jitter. The FPGA-based interlocks can be easily reconfigured, virtually eliminating hardware design spins usually required to accommodate process changes.

Digital Dynamics, Inc. manufactures and distributes high quality I/O Controllers and related products in Scotts Valley, California. DDI is an ISO:9001 registered company with over 40 years of design and manufacturing experience, and a worldwide installed base of more than 50,000 advanced electronic control systems.

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